



CITY OF RICHMOND
DEPARTMENT OF PUBLIC UTILITIES
DIVISION OF WASTEWATER TREATMENT

VA0063177
VLT -KT

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March 31, 2009

Mr. Rick Weeks
Regional Director
Piedmont Regional Office
Virginia Department of Environmental Quality
4949-A Cox Road
Glen Allen, VA 23060-6295

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MAR 31 2009
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Subject: City of Richmond, Virginia
VPDES Permit No. VA0063177
Combined Sewer System Annual Report for 2008

Dear Mr. Weeks:

Submitted herewith are two copies of the subject report in compliance with Section E, Combined Sewer System of the City's VPDES Permit.

If you have questions or require additional information, please feel free to call at (804) 646-8311.

Yours very truly,

Robert C. Steidel
Deputy Director Wastewater Utility

RCS/dgb
Enclosures

cc: Virginia Kelly, DEQ
Christopher L. Beschler
Rosemary Green
Frank Brown
Greg O'Halloran
Clair Watson
Jan Wyatt
Frank Brown
Federico E. Maisch



VPDES Permit No. VA 0063177

Combined Sewer System Annual Report for 2008

**City of Richmond, Virginia
Department of Public Utilities**

March 2009



GREELEY AND HANSEN

Combined Sewer System Report for 2008

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Combined Sewer System Report for 2008

Section 1

Section 1 Introduction and Summary

1.1 Introduction

The City of Richmond (City), capital of Virginia, is located astride the James River along the Falls of the James as shown on Figure 1-1. The City provides public water supply and wastewater collection and treatment services for the City and immediately adjacent areas in Henrico and Chesterfield Counties.

The City has a land area of about 38,000 acres and a population of about 200,000 persons. The wastewater collection and treatment facilities serve a population of about 211,000 persons.

The older central part of the City was built with combined sewers and areas outside the combined sewer system (CSS) area are served by separate sanitary and storm sewers.

1.1.1 Combined Sewer System – General

The City's CSS comprises approximately 12,000 acres or about 32 percent of the City. The area served by combined sewers is shown on Figure 1-2.

There are now 31 combined sewer overflow points (CSO outfalls as listed in Table 1-1).

Upon completion of the CSO 3 Project, CSO outfall No. 8 (6th Street) was combined with CSO outfall No. 9 (7th Street) reducing the total number of outfalls by one.

The CSS areas and individual CSOs are shown on Figure 1-3.

1.1.2 Combined Sewer System – Facilities and Operation

A system of intercepting and trunk sewers links the separate and combined systems with the Richmond wastewater treatment plant (WWTP). This system is shown on Figure 1-4. There is a mechanical or hydraulic control regulator structure at each CSO. Typical regulator arrangements are shown on Figures 1-5 and 1-6, respectively, for mechanical and hydraulic designs. Each regulator diverts all dry weather flow (DWF) to the WWTP. During wet weather events, each regulator diverts flow in excess of DWF to capture combined flow for treatment to the extent possible. Each CSO regulator facility has capacity to divert to the intercepting sewer for conveyance to the WWTP for complete treatment well in excess of three (3) times DWF.

The CSS also includes a 45.0 mg retention facility on the Shockoe Creek CSO Area. This facility (Shockoe Retention Basin) captures the first 45.0 mg of combined sewer wet weather flow and provides complete screening for flow rates greater than 5000 cfs (3232 mgd). In May 2003, the Hampton/McCloy CSO Retention Tunnel was placed on line (Division 4 and 5). This facility (Hampton/McCloy CSO Retention Tunnel) captures the first 7.2 mg of combined sewer wet weather flow in the Hampton/McCloy CSS basins with complete screening. The WWTP is designed to empty retained flow from the retention basin and tunnel within 48 hours following after CSO treatment conditions cease to exist and treat the retention basin flow plus collection system flow to permit limits. A location plan of the wastewater

Combined Sewer System Report for 2008

Section 1

treatment facilities, Shockoe retention facilities, and Hampton/McCloy CSO Retention Tunnel is shown on Figure 1-7 and a diagram of the Shockoe retention facilities and WWTP is shown on Figure 1-8. A diagram of the Hampton/McCloy CSO Retention Tunnel is shown on Figure 1-9.

1.1.3 VPDES Permit

On March 21, 2005, the Office of Permit Support (OPS) of the Virginia Department of Environmental Quality (VDEQ) issued VPDES Permit No. VA0063177 authorizing the Richmond WWTP to discharge into the James River in accordance with the effluent limitations, monitoring requirements and other conditions set forth in the permit. One of the conditions stipulated in the permit requires that the City must continue to implement and document operation and maintenance activities relative to the combined sewer overflows (CSO) and their effects on receiving water quality and shall submit an annual report by March 31st of each year documenting the following:

- Modeled results of the number and volume of overflows for each CSO outfall based on measured storm event data for the previous calendar year.
- Results of the Shockoe Creek and James River Monitoring performed in accordance with the permit.
- A summary of action taken during the previous calendar year for meeting the nine minimum controls.

1.1.4 Nine Minimum Controls

The City's VPDES permit includes the following nine minimum controls:

USEPA Nine Minimum Controls	VPDES Permit No. 0063177
Proper Operations and Maintenance	Permit: Part E.1.a.
Maximize Use of Collection System for Storage	Permit: Part E.1.b.
Review and Modify Pretreatment Requirements	Permit: Part E.1.c
Maximize Flow to the POTW for Treatment	Permit: Part E.1.d.
Eliminate Dry Weather Overflows	Permit: Part E.1.e
Control Solids and Floatables in CSOs	Permit: Part E.1.f and local program
Pollution Prevention	Permit: Part E.1.g and local program
Public Notification	Permit Part E.1.h and local program
Monitoring	Permit Part E.1.i

This report documents the City's continued efforts (1) to monitor and sample Shockoe Combined sewer area, (2) to update both sewer overflow model (SOM) and PULSEQUAL model, (3) to comply with the nine minimum controls.

Combined Sewer System Report for 2008

Section 1

1.2 Summary

The CSS is administered by the City's Department of Public Utilities (DPU). This department reports to the City Manager. DPU staff is supplemented by private contractors. A memorandum of understanding (MOU) was prepared and distributed in February 1998 to all responsible agencies to assist the Division of Wastewater Treatment (DWT) to comply with VPDES Permit No. 0063177. The MOU outlined the nine minimum controls required by the permit, identified various City agencies and associated individuals responsible for implementing and documenting the nine minimum controls and formalized a reporting procedure to be used for centralizing the records for the preparation of an annual report. The MOU was utilized in completion of this annual report. The City's activities and programs have been documented in detail in the following sections of this report and are summarized in Table 1-2.



**CITY OF RICHMOND, VIRGINIA
ANNUAL REPORT**

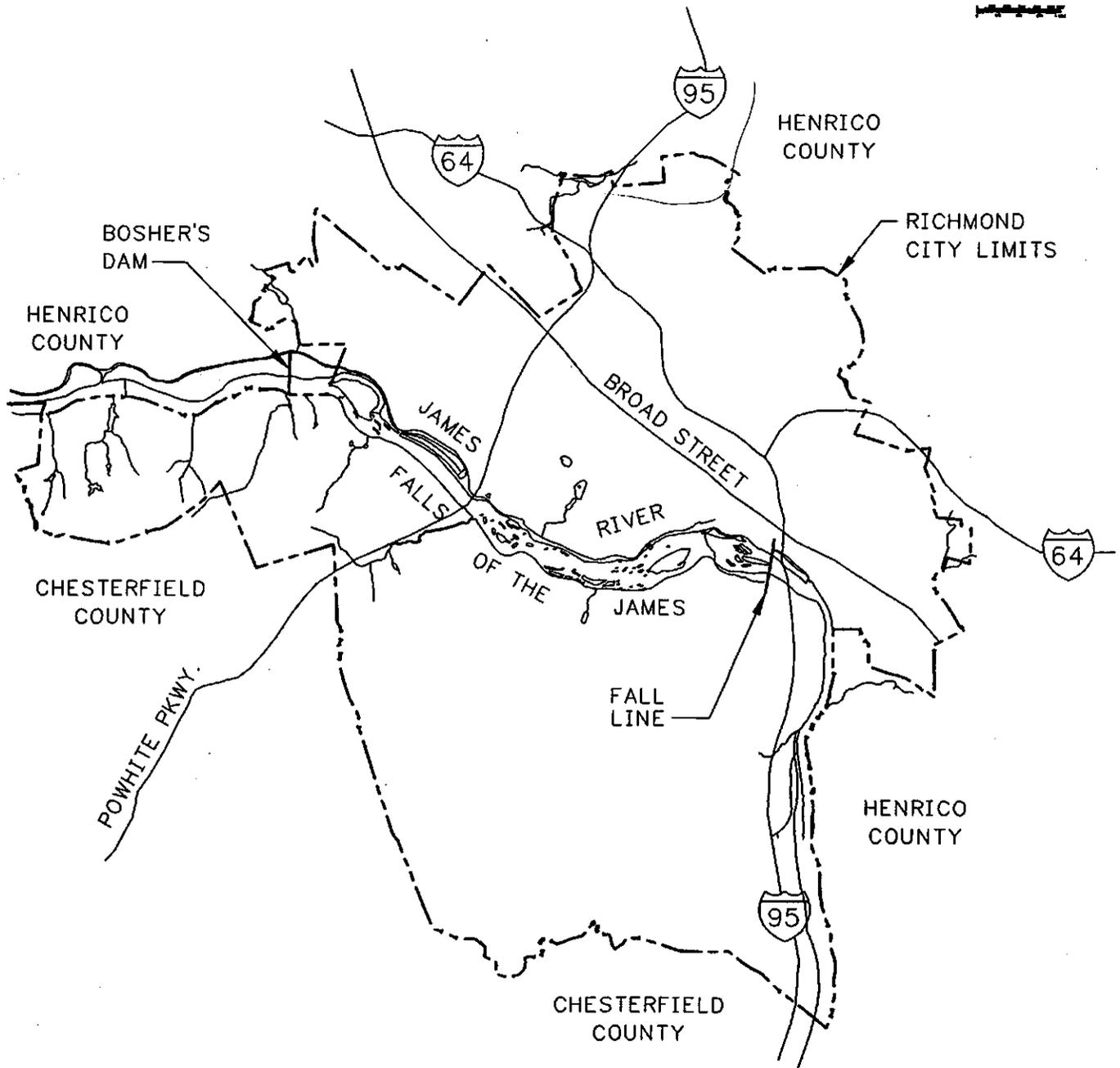
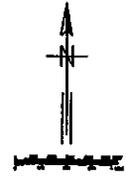
Table 1-1
List of 31 CSO Outfalls

CSO Basin Number	Combined Sewer Overflow Name	Receiving Water
Hampton Street CSO Area		
33	Shields Lake	Dooleys Branch
19	Hampton Street	James River
McCloy Street CSO Area		
20	McCloy Street	James River
Northside James River Park CSO Area		
11	Park Hydro	James River
10	Gambles Hill	Haxall Canal
9	7th Street	Haxall Canal
8	6th Street	Haxall Canal
7	Byrd Street	James River
Southside James River Park CSO Area		
18	42nd Street	James River
17	Reedy Creek	James River
16	Woodland Heights	James River
15	Canoe Run	James River
40	CSO-1 OUT/SSJRP	James River
Shockoe Creek CSO Area		
6	Shockoe Creek	James River
34	19th and Dock Street	Richmond Dock Canal
Wastewater Treatment Plant CSO Area		
14	Stockton Street	Manchester Canal
13	Maury Street	Manchester Canal
21	Gordan Avenue	James River
Gillies Creek CSO Area		
2	Orleans Street	James River
3	Nicholson Street	James River
4	Bloody Run	Gillies Creek
5	Peach Street	James River
23	Old Fulton Street Bridge	Gillies Creek
24	Gillie and Varina Streets	Gillies Creek
25	Briel Street and Gillies Creek	Gillies Creek
26	Gov't Road and NSRR	Gillies Creek
27	New Williamsburg Road	Gillies Creek
28	Williamsburg Road	Gillies Creek
31	Oakwood Cemetery	Stoney Run
35	29th and Dock Street	Richmond Dock Canal
39	Gov't Road and Gillies Creek	Gillies Creek
Hilton Street CSO Area		
12	Hilton Street	Almond Creek

**CITY OF RICHMOND, VIRGINIA
ANNUAL REPORT**

**Table 1-2
Summary of Nine Minimum Control Measures**

MINIMUM CONTROL	CONTROL MEASURES IMPLEMENTED
Proper Operation and Maintenance	<ul style="list-style-type: none"> • CSO control structures (e.g. regulators and tidegates) inspected and PM'd. once per month • Pumping Stations inspected, screenings removed and PM'd. daily • Regular program of sewer flushing
Maximize Use of Collection System for Storage	<ul style="list-style-type: none"> • CSO regulator controls set to optimize storage in intercepting system • Shockoe Retention System (55mg) serves about 8,000 acres of CSS and captures an average of about 1,416 mg of combined sewer flow annually (about 43.1 percent) of the total that would otherwise overflow. Retained flow receives complete treatment within 48 hours. • Approximately 25,000 feet of sewer are relined annually to reduce I/I • WWTP influent pumping adjusted during wet weather events to fill intercepting system to level of lowest overflow • Tide gates adjusted and repairs made to control tidal intrusion • Public and private facilities required to install stormwater storage in combined sewer area • Floodwall pumping stations include excess flow holding ponds to maximize storage during flood periods
Review and Modify Pre-treatment Requirements	<ul style="list-style-type: none"> • Pretreatment ordinance and program in effect • CSO modeling and analysis does not show any impacts that might be attributed to nondomestic sources • Several industries retain stormwater during wet weather events and control releases after the event to stay within pipe capacities • Discharge of water treatment plant residuals to the CSS is stopped during wet weather events
Maximize Flow to the POTW for Treatment	<ul style="list-style-type: none"> • Treatment rates at POTW are increased during wet weather events • POTW has high flow treatment plan designed to convey in excess of twice DWF through complete treatment during wet weather events • Retention facilities are emptied within 48 hours following a wet weather event • Retained flow receives complete treatment to permit limits
Eliminate Dry Weather Overflows (DWOs)	<ul style="list-style-type: none"> • Combined sewer diversion system design has capacity to convey in excess of 3 times DWF to WWTP • Diversion facilities inspected regularly and PM'd to insure they are in proper working order • Pumping stations are monitored to detect any DWOs caused by clogging or equipment malfunction • Shockoe retention facility continuously manned • DPU maintains a 24-hour on-call team responsible to respond to reported DWOs • No new combined sewers constructed inside or outside of the existing CSS area.
Control of Solid and Floatable Materials in CSOs	<ul style="list-style-type: none"> • Continuous screening provided at Shockoe retention facility for over 2/3 of CSS • New combined sewer conveyance system (under construction) equipped with continuous self-cleaning solids and floatables capture facilities • Solids and floatables captured are removed at source or conveyed to WWTP for removal • Increased screening during leaf season/leaf pickup twice per season • About 50 percent of catch basins (8,000 basins) cleaned annually • Regular litter and annual free citywide litter cleanup programs • Regular street cleaning and downtown sidewalks scrubbing programs • Regular annual catch basin cleaning program
Pollution Prevention	<ul style="list-style-type: none"> • DPU has a regular public education program with facility tours including advice on proper disposal of substances (e.g., household wastes, leaves and use of fertilizer) • Adopt a street and Clean City business awards programs • Pretreatment program includes awareness programs that encourage industrial waste reduction through recycling and improved housekeeping • DPU operates and maintains a septage receiving station • Ordinances designed to prohibit entrance of any substances that may impair or damage the function and performance of collection and treatment systems
Public Notification	<ul style="list-style-type: none"> • CSO control facilities under construction are expected to reduce overflows at public use/access areas of James River to an average of from 0 to 1 per year with remaining overflows expected in winter months (e.g. high river flows, little public activity). If greater CSO exposure is subsequently identified, signs of the type shown on Exhibit No. 1 will be evaluated for installation. • Numerous public meetings and hearings have been held to provide the public information and obtain public input on the CSS, CSOs and control program • Community meetings have been held to inform local groups on proposed control facilities • Local press coverage of CSO program developments is continuing
Monitoring	<ul style="list-style-type: none"> • Conduct flow monitoring and wet weather overflow sampling for the Shockoe Creek outfall (006) combined sewer area once per permit cycle. Report is provided to VDEQ. • A twice weekly and wet weather event instream monitoring/sampling program will be conducted on the James River for dissolved oxygen, temperature, pH and fecal coliform once per permit cycle. • A complete SWMM based (sewer overflow model, SOM) hydraulic model has been created for the CSS. A CSO impact model has been developed for the tidal James River (PULSEQUAL). Both models will be updated and verified using the monitoring and sampling data once per permit cycle.

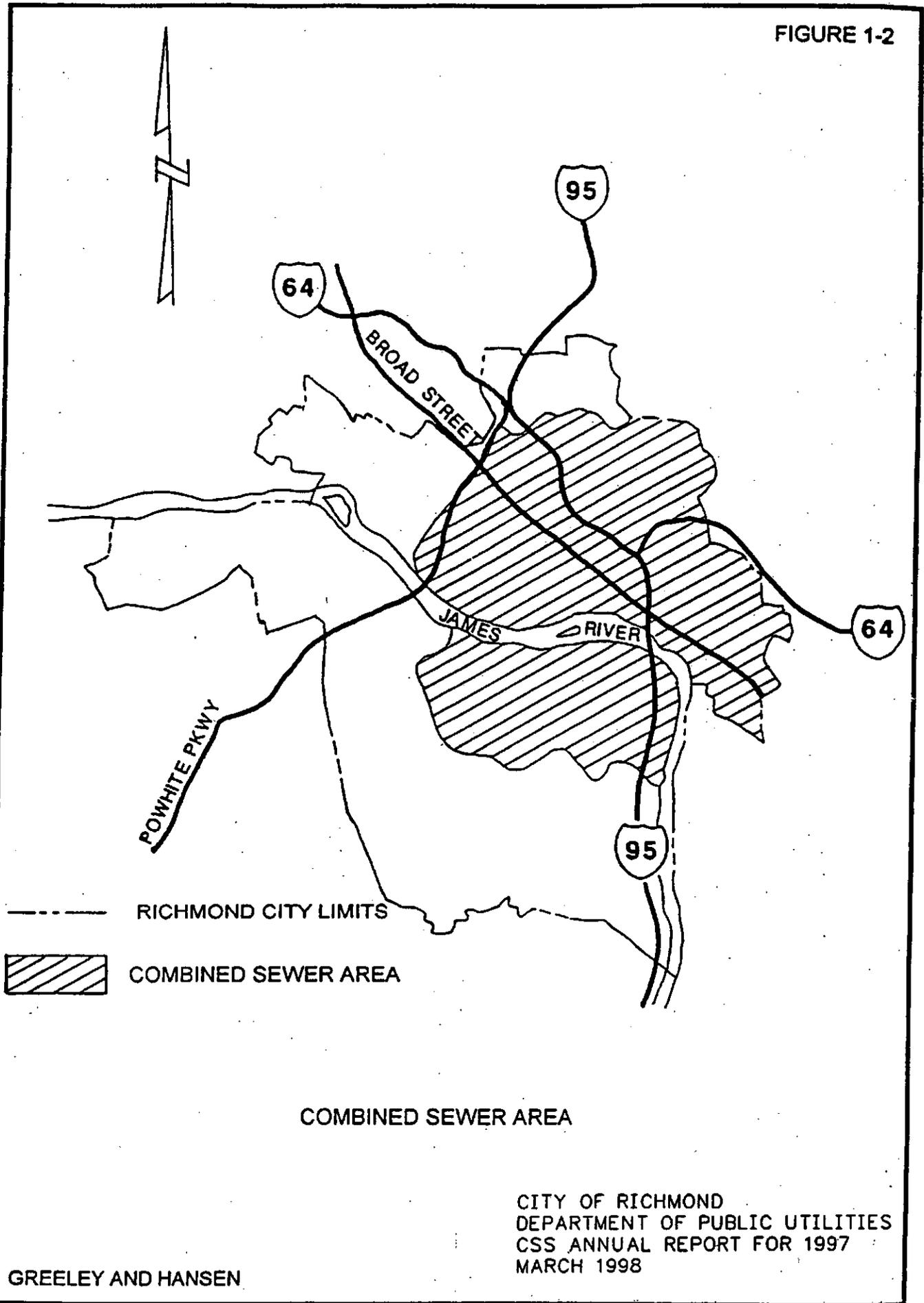


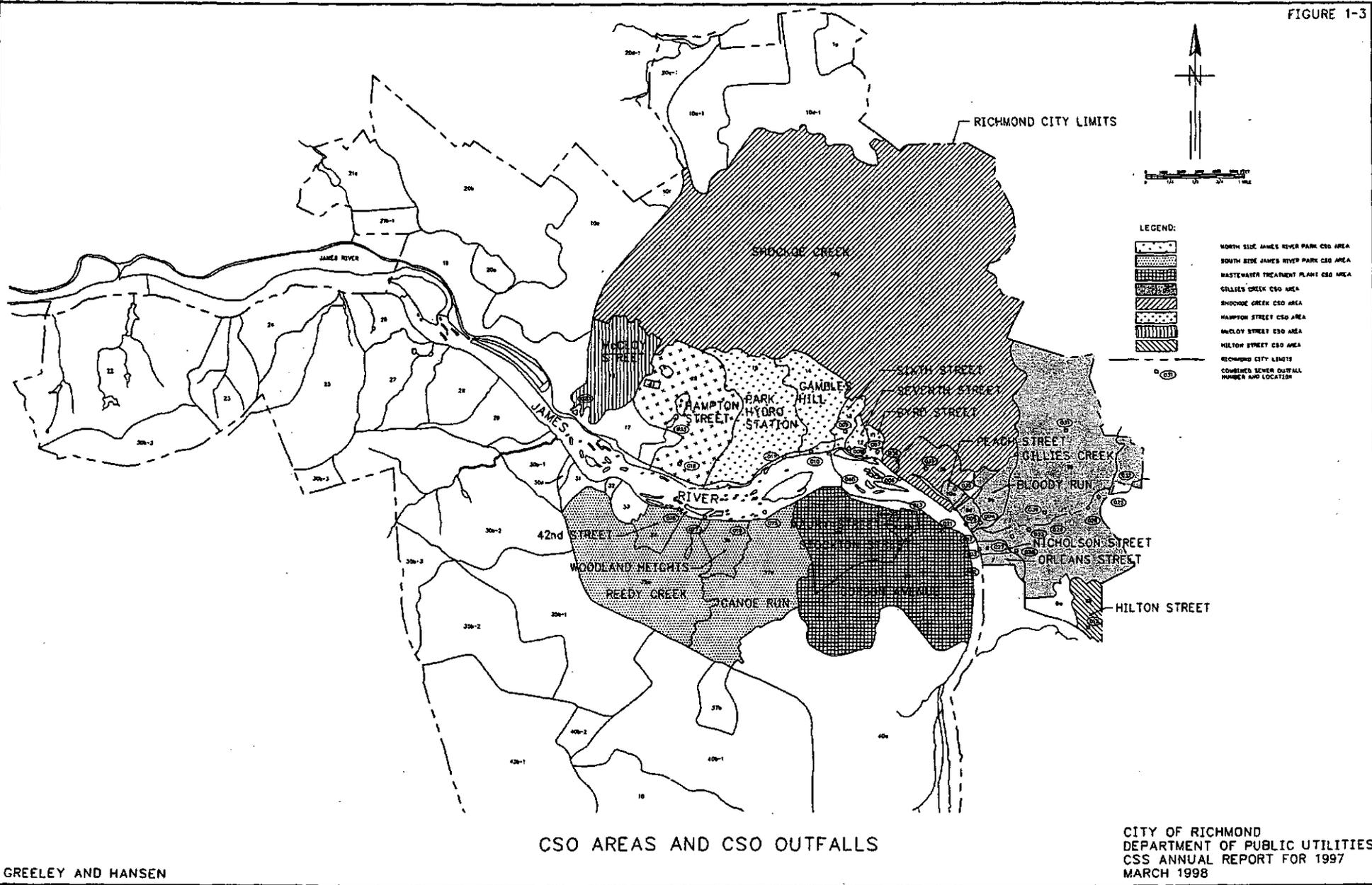
CITY OF RICHMOND - LOCATION MAP

CITY OF RICHMOND
 DEPARTMENT OF PUBLIC UTILITIES
 CSS ANNUAL REPORT FOR 1997
 MARCH 1998

FILE: S:\CLIENTS\RICH\0217K\9MINIMUM\DWGS-2000\00FIG1-1 1:2000 01/22/01 15:58 GH-F

FIGURE 1-2



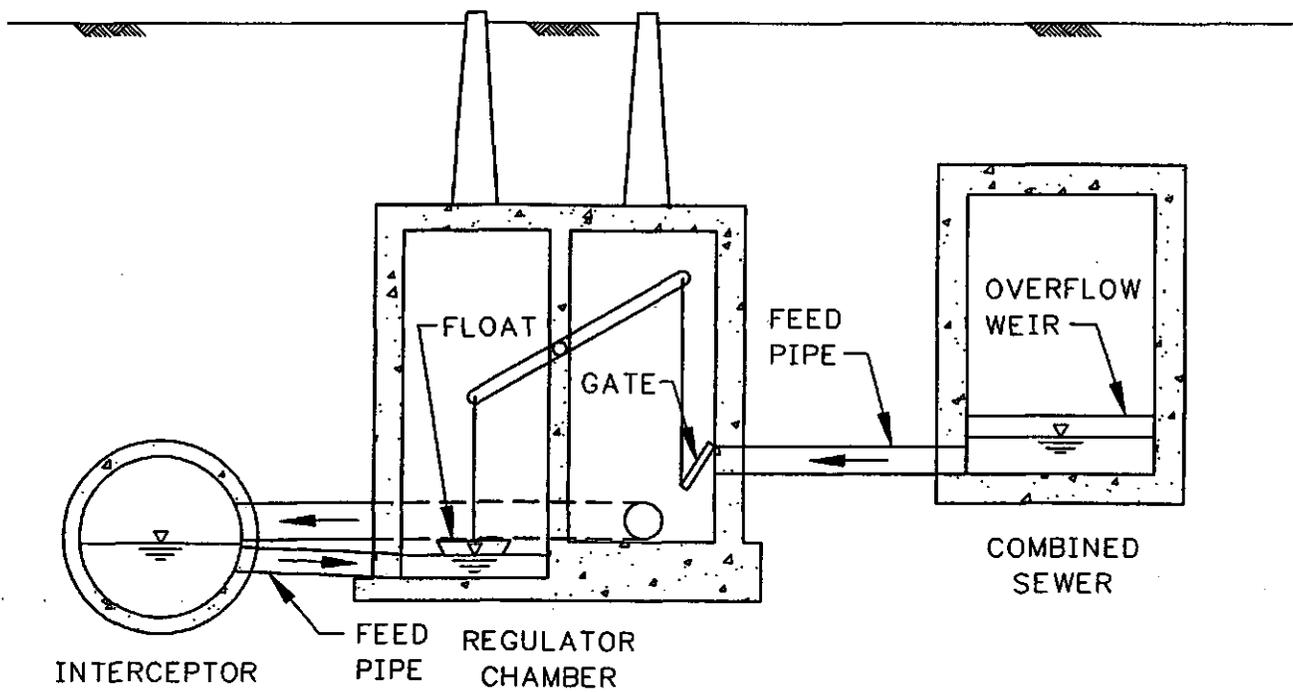


CSO AREAS AND CSO OUTFALLS

CITY OF RICHMOND
 DEPARTMENT OF PUBLIC UTILITIES
 CSS ANNUAL REPORT FOR 1997
 MARCH 1998

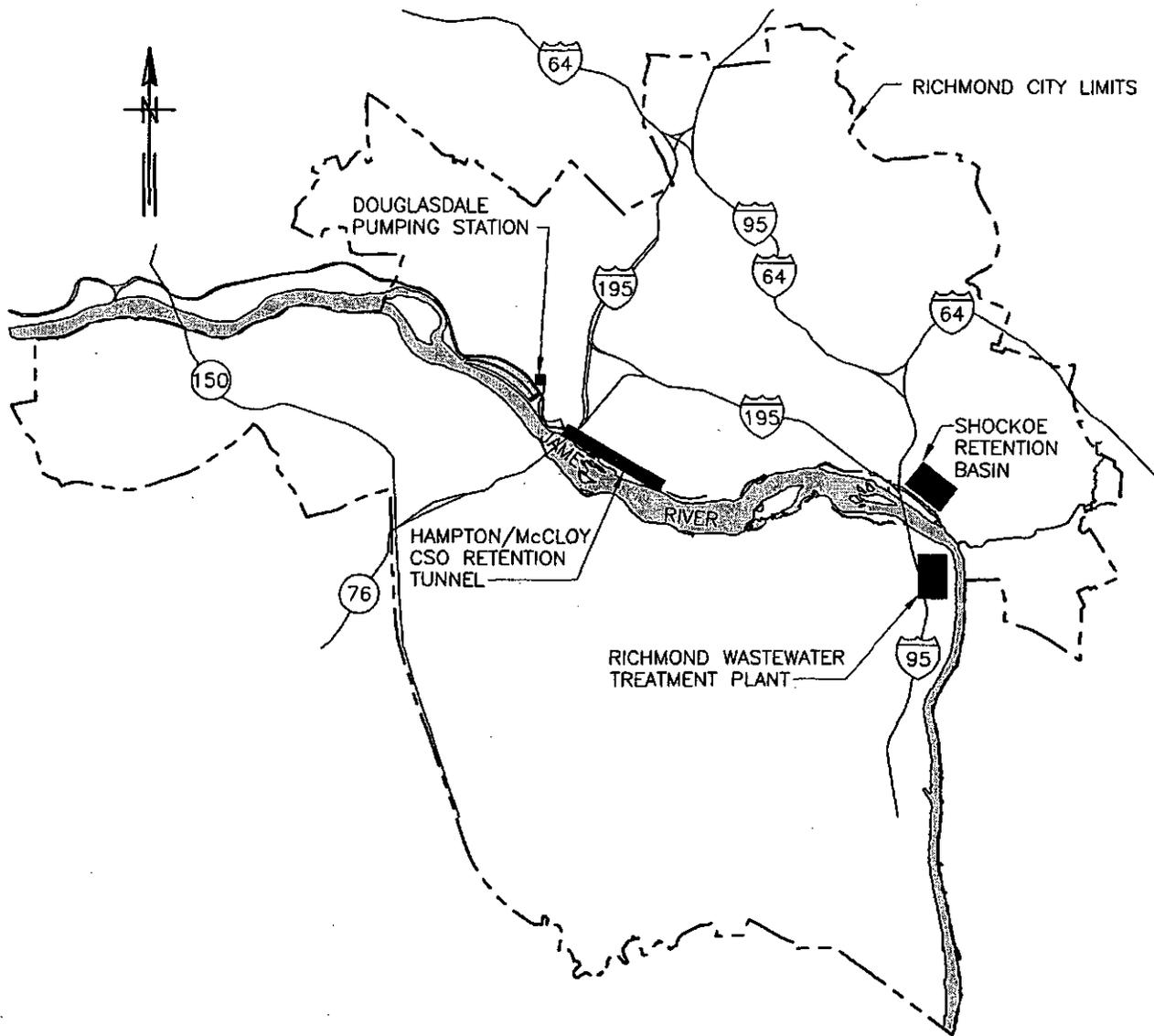
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GREELEY AND HANSEN



TYPICAL MECHANICAL REGULATOR

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LOCATION OF RICHMOND WWTP,
SHOCKOE RETENTION FACILITIES AND
HAMPTON-MCCLOY RETENTION TUNNEL

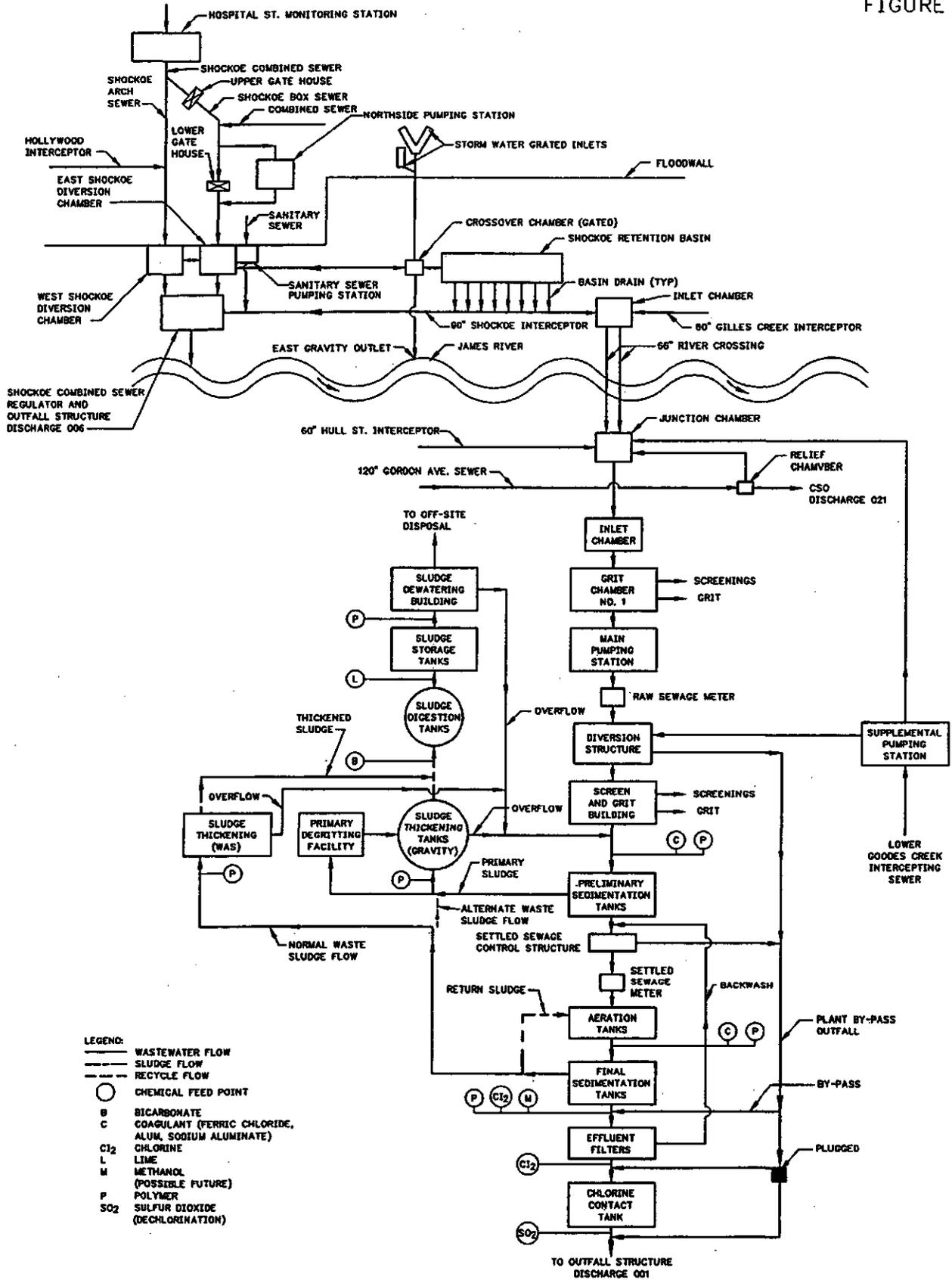
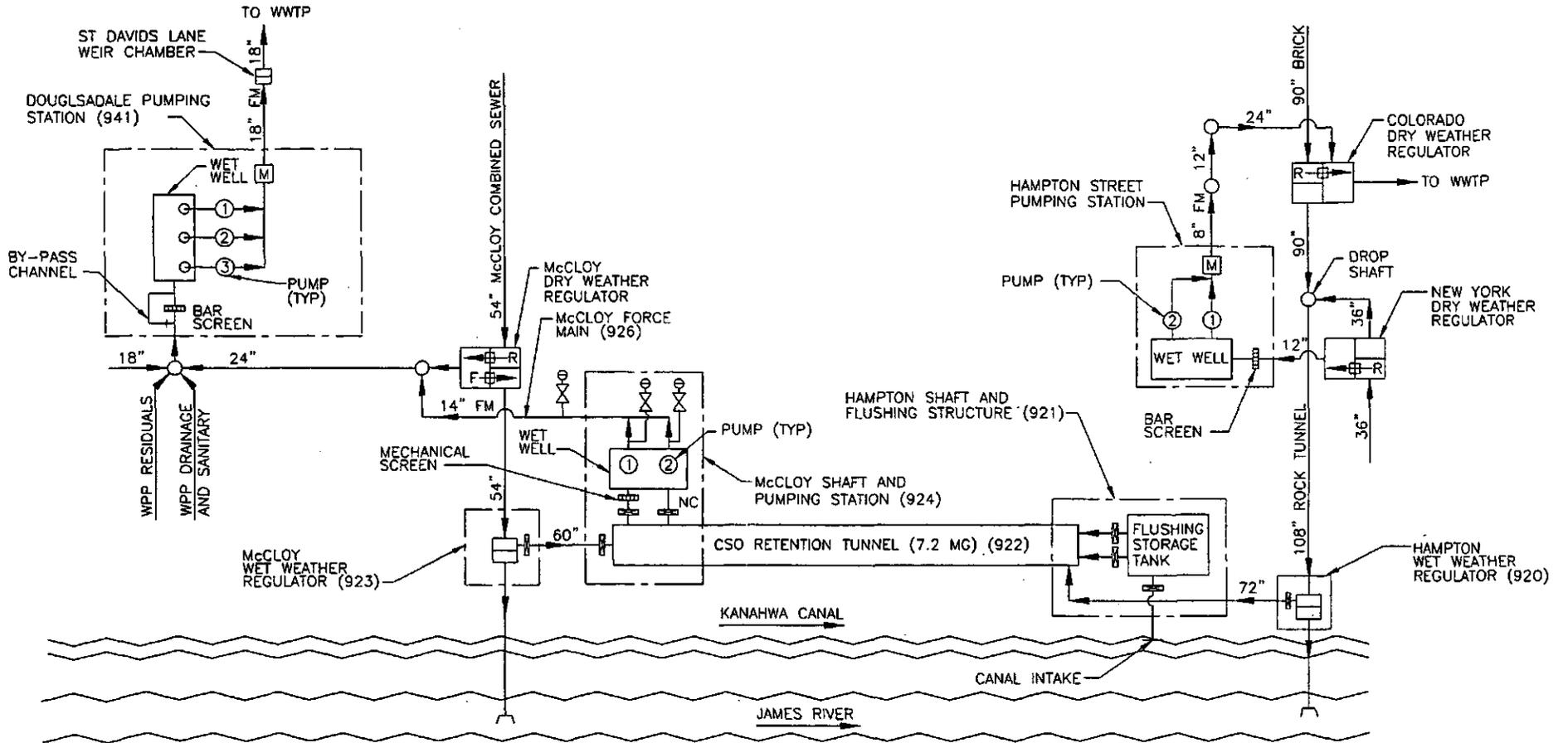


DIAGRAM OF WASTEWATER TREATMENT AND SHOCKOE RETENTION FACILITIES

CITY OF RICHMOND
 DEPARTMENT OF PUBLIC UTILITIES
 CSS ANNUAL REPORT FOR 1997
 MARCH 1998



HAMPTON-MCCLOY RETENTION TUNNEL SCHEMATIC

Combined Sewer System Report for 2008

Section 2

Section 2 Combined Sewer Overflow Characterization

2.1 General

A complete SWMM based hydraulic model (sewer overflow model, SOM) of the Richmond combined sewer system (CSS) was created for the 1988 CSO Study and was upgraded in 2002 to the EPA SWMM model in the *Combined Sewer Overflow (CSO) Study, Long-Term CSO Control Plan Re-Evaluation, Final Report* – January 2002. The model has been revalidated with information obtained from the Shockoe Creek monitoring program.

Results of the modeled predictions for 2007 are summarized in Tables 2-1 and 2-2 and as follows:

Item	Prediction for CSS
Total Precipitation – inches	49.57
Total Overflow Volume – MG	3870.16
Numbers of Rainfall Events Predicted to Result in an Overflow	60
Average Overflow per Event – MG	64.50

Table 2-1

Summary of Precipitation and Modeled CSO Occurrences for 2008
City of Richmond

Date	Rainfall (inches)	CSO (1)		Date	Rainfall (inches)	CSO (1)
1 10 2008	0.04	No CSO		7 4 2008	0.01	No CSO
1 11 2008	0.03	No CSO		7 5 2008	0.69	CSO Occured
1 13 2008	0.06	CSO Occured		7 6 2008	0.68	CSO Occured
1 17 2008	0.60	CSO Occured		7 8 2008	0.01	No CSO
1 19 2008	0.11	CSO Occured		7 9 2008	0.41	CSO Occured
1 22 2008	0.01	No CSO		7 14 2008	0.21	CSO Occured
1 29 2008	0.01	No CSO		7 19 2008	0.20	CSO Occured
1 30 2008	0.10	CSO Occured		7 23 2008	0.99	CSO Occured
2 1 2008	2.56	CSO Occured		7 27 2008	0.82	CSO Occured
2 12 2008	0.06	CSO Occured		7 29 2008	0.03	No CSO
2 13 2008	0.50	CSO Occured		8 15 2008	0.10	CSO Occured
2 17 2008	0.02	No CSO		8 26 2008	0.01	No CSO
2 18 2008	0.01	No CSO		8 27 2008	0.39	CSO Occured
2 20 2008	0.02	No CSO		8 28 2008	5.22	CSO Occured
2 22 2008	0.24	CSO Occured		8 31 2008	0.01	No CSO
3 4 2008	0.86	CSO Occured		9 5 2008	2.49	CSO Occured
3 7 2008	1.70	CSO Occured		9 9 2008	0.01	No CSO
3 15 2008	0.42	CSO Occured		9 10 2008	0.55	CSO Occured
3 19 2008	0.19	CSO Occured		9 12 2008	0.01	No CSO
3 22 2008	0.04	CSO Occured		9 16 2008	0.06	No CSO
3 29 2008	0.11	CSO Occured		9 25 2008	2.14	CSO Occured
3 30 2008	0.04	No CSO		9 27 2008	0.01	No CSO
3 31 2008	0.15	CSO Occured		9 28 2008	0.01	No CSO
4 1 2008	0.03	No CSO		9 30 2008	0.66	CSO Occured
4 3 2008	0.76	CSO Occured		10 17 2008	0.66	CSO Occured
4 4 2008	0.17	CSO Occured		10 25 2008	0.39	CSO Occured
4 5 2008	0.53	CSO Occured		10 27 2008	0.27	CSO Occured
4 12 2008	0.26	CSO Occured		11 4 2008	0.33	CSO Occured
4 20 2008	5.41	CSO Occured		11 5 2008	0.01	No CSO
4 26 2008	0.10	CSO Occured		11 6 2008	0.02	No CSO
4 28 2008	1.06	CSO Occured		11 8 2008	0.05	CSO Occured
5 8 2008	2.57	CSO Occured		11 12 2008	0.01	No CSO
5 10 2008	0.08	CSO Occured		11 13 2008	0.27	CSO Occured
5 11 2008	1.81	CSO Occured		11 14 2008	1.50	CSO Occured
5 12 2008	0.04	No CSO		11 15 2008	0.06	CSO Occured
5 15 2008	0.37	CSO Occured		11 24 2008	0.37	CSO Occured
5 18 2008	0.01	No CSO		11 30 2008	0.89	CSO Occured
5 20 2008	0.20	CSO Occured		12 6 2008	0.03	No CSO
5 27 2008	0.02	No CSO		12 10 2008	2.98	CSO Occured
6 1 2008	0.30	CSO Occured		12 16 2008	0.59	CSO Occured
6 3 2008	0.32	CSO Occured		12 19 2008	0.08	CSO Occured
6 14 2008	0.39	CSO Occured		12 21 2008	0.36	CSO Occured
6 16 2008	0.12	No CSO		12 24 2008	0.02	No CSO
6 19 2008	0.02	No CSO		12 27 2008	0.02	No CSO
6 21 2008	2.32	CSO Occured				
6 22 2008	0.04	No CSO				
6 29 2008	0.13	CSO Occured				

Total Precipitation:	49.57	Total CSO occurrences:	60
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(1) CSO Occured indicates a discharge at one or more outfalls; No CSO indicates no discharge at any outfall.

Table 2-2

Summary of Modeled CSO Frequency and Volume for 2008
City of Richmond, Virginia

2008 OVERFLOW SUMMARY			
CSO Number	Basin Name	FREQUENCY	VOLUME (MG)
33	Shields Lake	4	1.61
19	Hampton-CO	0	0.00
19	Hampton-NY	7	60.37
20	McCloy	6	24.61
11	Park Hydro	8	10.93
10	Gambles Hill	2	0.51
9	6 th & 7th St.	0	0.00
7	Byrd	2	0.07
SUBTOTAL		98.10	
18	42nd St.	1	0.00
17	Reedy Cr.	0	0.00
16	Woodland	1	0.13
15	Canoe Run	5	38.46
40	CSO-1 Out/SSJRP		
SUBTOTAL		38.59	
6	Shockoe	59	3221.58
34	19th & Dock	44	84.29
SUBTOTAL		3305.87	
14	Stockton St.	22	61.95
13	Maury St.	22	4.06
21	Gordon Ave.	52	185.26
SUBTOTAL		251.27	
2	Orleans	28	6.86
3	Nicholson	29	4.74
4	Bloody Run	33	24.14
5	Peach St.	4	0.54
23	Old Ful St. Br.	0	0.00
24	Gillies & Varina	40	25.47
25	Briel & Gillies Cr.	33	22.51
26	Gov't Rd. & NSRR	33	7.45
27	New W'Burg Rd.	0	0.00
28	W'Burg Rd.	17	18.89
31	Oak'Wd Cem.	12	12.17
35	29th & Dock	4	0.24
39	Gov't Rd. & Gillies	41	33.51
SUBTOTAL		156.52	
12	Hilton St.	38	19.81

TOTAL CSOs (MG)	3870.16
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Combined Sewer System Report for 2008

Section 3

Section 3 Monitoring of Shockoe Creek Outfall and James River

3.1 General

The City has implemented monitoring of the CSS for wet weather and dry weather flow. The program includes flow measurement and sampling. Additionally, the City has implemented a river sampling program.

CSS and dry weather monitoring are conducted on the Shockoe Creek CSO area.

River monitoring is conducted in the free flowing section of the James River and tidal estuary.

3.1.1 Shockoe CSO Monitoring Program

The plan for Shockoe CSO monitoring program is divided into two phases and was included in the *Appendix 3-1* of the *Combined Sewer System Annual Report for 1997*. The results of Phase 1 of the monitoring program were summarized in *Appendix 10-2* of the *CSS Documentation Report on NMC* dated December 1996. An operating plan for Phase 2 was also presented in the same *Appendix*. Summaries of data collected in the Shockoe CSO Outlet Monitoring Program are submitted to DEQ through Progress Reports.

The sample collection for the monitoring program for Phase 2 is complete. The existing Shockoe CSO monitoring station was utilized to collect samples along with a new sampling facility at the Richmond Wastewater Treatment Plant on the Gordon Avenue Sewer. The Gordon Avenue Sewer is the next largest combined sewer in the City after the Shockoe Basin. The *Combined Sewer Overflow (CSO) Study, Long Term CSO Control Plan Re-Evaluation, Final Report - January 2002* contains the data analysis of water quality for Phase 2.

3.1.2 James River Monitoring Program

The City continued the river sampling program that was initiated in September 1996. PULSEQUAL, a CSO impact model for the tidal James River prepared earlier, is being updated and verified using the river sampling program included in *Appendix 3-2* of the *Combined Sewer System Annual Report for 1997*. The sample collection for the James River monitoring program for Phase 2 is complete. The *Combined Sewer Overflow (CSO) Study, Long Term CSO Control Plan Re-Evaluation, Final Report - January 2002* contains the data analysis of water quality for Phase 2.

Combined Sewer System Report for 2008

Section 4

Section 4 Proper Operations and Maintenance

4.1 General

The Wastewater Treatment Plant and Operations Support divisions of the Department of Public Utilities are responsible for proper operation and maintenance of the CSS. Continued measures for implementing proper O&M of the CSS are summarized in this section.

There are a total of 40 City and contract employees assigned to the CSS for sewer inspection, sewer construction and repair, sewer flushing and catch basins/inlets cleaning. These City and Contract O&M crews spend all their time performing operation and maintenance activities on the CSS. The CSS represents about 32 percent of the total sewered area in the City and the time dedicated to the CSS shows that the City assigns a high priority to O&M of the CSS.

Total annual sewer system O&M expenditures average about \$3.52 million. About 48 percent of these expenditures are for the CSS. The City also expended \$2.74 million for O&M repairs in the Battery Park area of the City after the collapse of the Battery Park Trunk Sewer on August 31, 2006.

4.1.1 CSO Control Structures – Operations and Maintenance

The City owns and maintains tide gates, regulators and CSO outfalls for CSO control. There is a regular schedule for inspection and maintenance of each structure. The schedule of performance of the City's O&M program is as follows:

CSO Control Structures	Inspection Interval	Maintenance		Record in Appendix
		Interval	Type	
Tide Gates (3) Gordon Ave. Stockton St. Shockoe	Monthly	Monthly	Preventative Maintenance	4-1
Regulators (18)	Monthly	Monthly	Preventative Maintenance	4-1
CSO Outfalls (32)	Monthly	Monthly	Preventative Maintenance	4-1

Major repairs deemed necessary at the monthly inspection are initiated by work order. The repairs are scheduled and needed parts are ordered. Major repairs may be handled by the City's maintenance department or by outside contractors dependent upon the complexity of the repair.

Combined Sewer System Report for 2008

Section 4

4.1.2 Pumping Stations

The City owns and maintains three pumping stations. There is a regular schedule for inspection and maintenance. Equipment inspection, screen cleaning and debris removal are part of the regular activities. Information concerning the City's Pumping Stations O&M program is summarized below:

Pump Station	Capacity (mgd)		Est. DW ⁽¹⁾ Peak (mgd)	Inspection/ Maintenance Interval	Record in Appendix
	Firm	Installed			
Douglasdale (on CSS)	7.5 ⁽²⁾	13.0 ⁽²⁾	2.2	Daily	4-2
Hampton (on CSS)	0.9	1.7	0.4	Daily	4-2
Upham Brook	8.6	13.0	0.3	Every Other Day	4-2
⁽¹⁾ DW - Dry Weather					
⁽²⁾ Douglasdale Pump Station was upgraded as part of CSO Project Nos. 4 and 5					

4.1.3 Sewer Flushing and Cleaning

The City annually cleans and flushes sewer lines. Some are cleaned more frequently than once per year to prevent grease and solids build up. In 2007, the City cleaned over 237,213 linear feet of sewer lines. Debris removed during flushing and cleaning is landfilled. The City also inspects sewer lines with a video camera. In 2007, the City CCTV'd over 234,313 linear feet of sewer lines. The City owns and operates its own video equipment and also supplements its own forces with CCTV contractors. Documentation of the City's Sewer Flushing and TV program is shown in APPENDIX 4-3.

4.1.4 Catch Basin Cleaning

The City has approximately 30,000 catch basins within the City limits, which takes 1.5 years to clean. This year, over 3,397 were cleaned with City vacuum trucks. Approximately one thousand catch basins in the central area are cleaned more frequently (approximately four times per year). Documentation of the City's Catch Basin Cleaning program is shown in APPENDIX 4-4.

4.1.5 Dry Weather Flow Study

The City has conducted a dry weather flow (DWF) study. The purpose of the study is to establish the sum base infiltration/inflow (I/I) and dry weather flow for compliance with permit limits derived from wasteload allocation evaluations. The results of this study provide bases to separate dry weather and wet weather conditions and establish when wet weather events exist in the CSS. A methodology to account for variances (increases or reductions) in DWF is currently being developed.

4.1.6 Safety and Training Programs

The City conducts regular training programs in work procedures and safety. The programs were summarized in *Appendix 2-3* of the *Combined Sewer System Documentation Report on Nine Minimum Controls* dated December 1996.

Combined Sewer System Report for 2008

Section 5

Section 5 Maximize Use of Collection System for Storage

5.1 General

The CSS was operated to retain combined flow during wet weather conditions. All flow retained in the CSS was treated to permit limits in the WWTP. A diagram of the wastewater and combined sewer system is shown on Figure 5-1. This system includes retention basins for storage and also utilizes intercepting sewer capacity for storage. Additionally, local retention facilities provide separate stormwater storage.

5.1.1 Retention Storage

As shown on Figure 5-1, there are existing retention facilities on the Shockoe combined sewer area and a retention facility for the Hampton-McCloy CSO areas as part of the long term CSO control plan. The Shockoe facilities serve about 8,000 acres of the CSS and comprise a 35 MG retention basin with upstream storage of about 10 MG in diversion structures and arch and box sewers. The Hampton-McCloy Retention Tunnel serves about 1,012 acres of the CSS and comprises a 7.2 MG retention tunnel.

Based on the updated system overflow model developed for the CSS and verified by previously monitored events, estimated average annual storage performance for the Shockoe facilities is summarized as follows:

Shockoe CSO Area Condition	Estimated Average Annual Performance	
	No. Overflow Events	Total Overflow - MG
Without Retention	79	4214
With Retention	64	2081
Volume Captured	--	2133

Based on the updated system overflow model developed for the CSS and verified by previously monitored events, estimated average annual storage performance for the Hampton-McCloy Retention Tunnel is summarized as follows:

Hampton-McCloy CSO Area Condition	Estimated Average Annual Performance	
	No. Overflow Events	Total Overflow - MG
Without Retention	47	105
With Retention	4	29
Volume Captured	--	76

Combined Sewer System Report for 2008

Section 5

5.1.2 Intercepting Sewer Storage

The lower sections of intercepting sewers conveying flow to the WWTP are located at elevations below the lowest CSO overflow elevation (Shockoe overflow at El. +1.00). Sewers and estimated storage are summarized below:

Intercepting Sewer	Diameter (inches)	Length Below El +1.00 (feet)	Storage Capacity (MG)
Lower Goodes Creek	72	10,905	2.61
Twin River Crossings	66	1,100	0.39
Hull Street	60	2,700	0.40
Southside CSO Conveyance ⁽¹⁾	90	4,650	1.54
Shockoe	96	2,700	1.02
Gillies Creek	60	2,500	0.37
Northside CSO Conveyance ⁽²⁾	96, 84, 60	2,850	0.89
⁽¹⁾ Southside CSO Conveyance stores CSS to an elevation of 10.0 feet			
⁽²⁾ Northside CSO Conveyance stores CSS to an elevation of 16.0 feet			

5.1.3 Stormwater Storage

As shown on Figure 5-1, there are holding ponds located adjacent to the Brander Street and Gordon Avenue pumping stations. These ponds are part of the Richmond floodwall system and are designed to retain storm water. There are other local stormwater holding facilities on the CSS. Examples are as follows:

- Parking lot stormwater retentions - DPU Operations Building
- Stormwater retention - State Archives Building
- Industrial Stormwater Retention as described in Section 6.1.1.

5.1.4 Sewer Relining

The City conducts an extensive annual sewer relining program to reduce I/I. The City lined 45,981 feet of sewer this year. Documentation of the City's Sewer Relining Program is summarized in APPENDIX 5-1.

Combined Sewer System Report for 2008

Section 5

5.1.5 Other

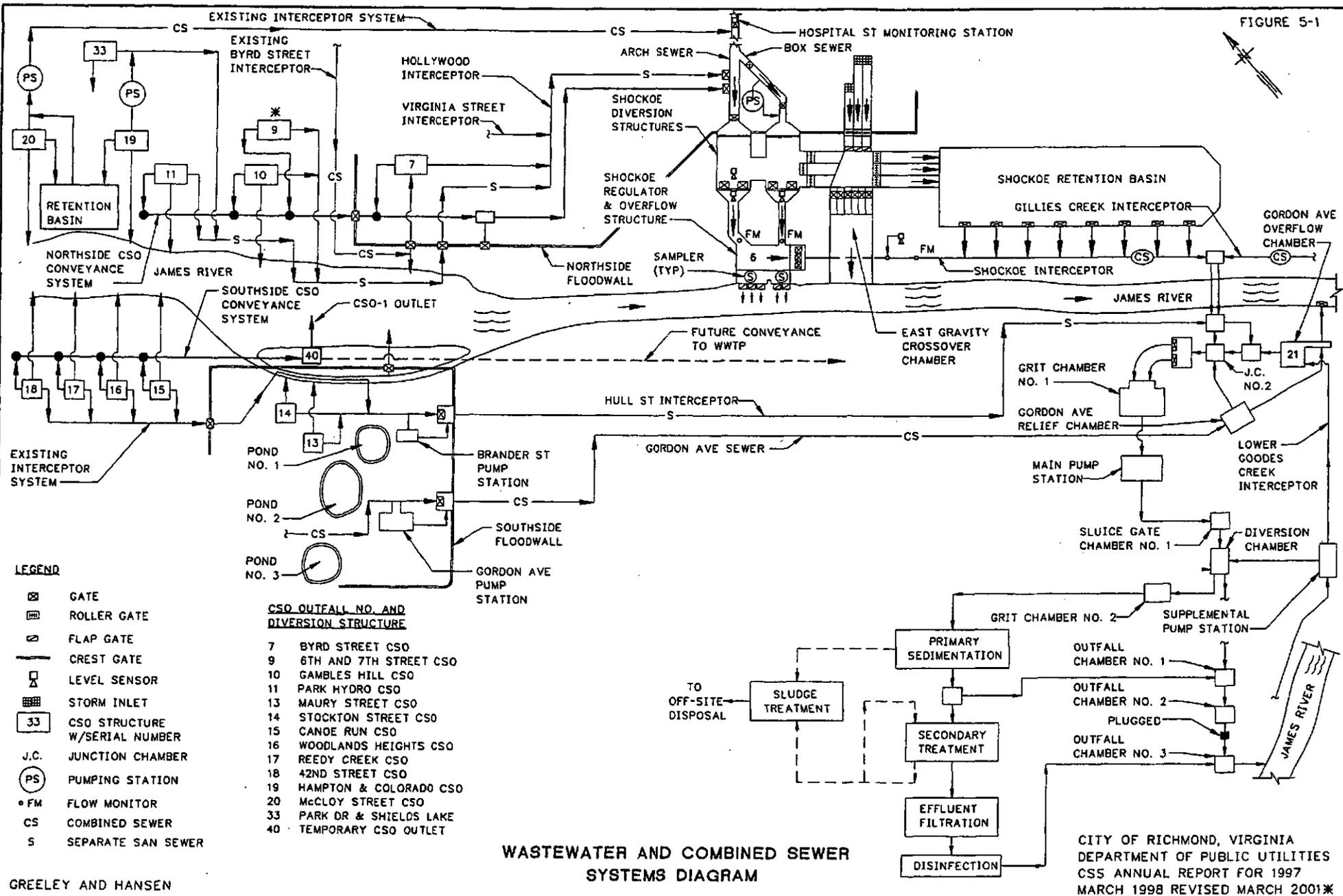
Other measures implemented to maximize storage are summarized as follows:

- Tide gates are routinely inspected and repaired to reduce tidal intrusion (see Section 4 - Proper Operation and Maintenance).
- Ordinance prohibiting connection of roof leaders to the sanitary sewer was presented in *Appendix 5-1* of the *Combined Sewer System Documentation Report on Nine Minimum Controls* dated December 1996.



FILE: S:\CLIENTS\RICH\0217K\9MINIMUM\DWGS-2000\00CSOSYS-1-4800_03/28/01 14:03 GH-F

FIGURE 5-1



- LEGEND**
- GATE
 - ROLLER GATE
 - FLAP GATE
 - CREST GATE
 - LEVEL SENSOR
 - STORM INLET
 - CSO STRUCTURE W/SERIAL NUMBER
 - JUNCTION CHAMBER
 - PUMPING STATION
 - FLOW MONITOR
 - COMBINED SEWER
 - SEPARATE SAN SEWER

- CSO OUTFALL NO. AND DIVERSION STRUCTURE**
- 7 BYRD STREET CSO
 - 9 6TH AND 7TH STREET CSO
 - 10 GAMBLES HILL CSO
 - 11 PARK HYDRO CSO
 - 13 MAURY STREET CSO
 - 14 STOCKTON STREET CSO
 - 15 CANOE RUN CSO
 - 16 WOODLANDS HEIGHTS CSO
 - 17 REEDY CREEK CSO
 - 18 42ND STREET CSO
 - 19 HAMPTON & COLORADO CSO
 - 20 McCLOY STREET CSO
 - 33 PARK DR & SHIELDS LAKE
 - 40 TEMPORARY CSO OUTLET

WASTEWATER AND COMBINED SEWER SYSTEMS DIAGRAM

CITY OF RICHMOND, VIRGINIA
 DEPARTMENT OF PUBLIC UTILITIES
 CSS ANNUAL REPORT FOR 1997
 MARCH 1998 REVISED MARCH 2001*

GREELEY AND HANSEN

Combined Sewer System Report for 2008

Section 6

Section 6 Review and Modify Industrial Pretreatment Requirements

6.1 General

The City administered and implemented an industrial pretreatment program required by its VPDES permit. The Industrial Pretreatment Ordinance was included in *Appendix 6-1* of the *Combined Sewer System Documentation Report on Nine Minimum Controls* dated December 1996.

6.1.1 Storm Water Retention

The following industries retain storm water on site during wet weather events and control releases until after the event for treatment to permit limits at the WWTP:

Industry Name	Location
Westvaco	Stockton Street
Phillip Morris	Stockton Street
Phillip Morris	Everett Street
Ethyl Corp.	Springhill Road
VCU	VCU Steam Plant
Raschig	Old Osborn Turnpike

Each industry is issued an Industrial User Permit which includes a section on Discharge of Stormwater. A typical Industrial User Permit was included in *Appendix 6-2* of the *Combined Sewer System Documentation Report on Nine Minimum Controls* dated December 1996.

6.1.2 Water Plant Residuals

The City's water treatment plant residuals are normally pumped to the wastewater treatment plant through the Douglasdale Pump Station for treatment. The City's Pretreatment Department has issued the City's Water Treatment Plant a discharge permit (No. 1425) for the residuals for 12 tons of dry solids as a daily maximum and 70 tons of dry solids as a weekly average. During wet weather events, residuals flow is discontinued.

6.1.3 Industrial Impact

CSO modeling and wastewater sample analysis does not indicate any impacts attributed to non-domestic resources.



Combined Sewer System Report for 2008

Section 7

Section 7 Maximize Flow to the POTW for Treatment

7.1 General

The City has continued its program for maximizing flow to the WWTP during wet weather conditions. Essential elements of the program are summarized below:

- The CSS is designed to permit diversion in excess of three (3) times DWF to the WWTP as noted on Table 7-1.
- Flow stored in the Shockoe Retention System and the Hampton-McCloy Retention Tunnel is treated at a rate of no less than 75 mgd and the system is emptied within 48 hours after CSO conditions cease to exist.
- Treatment rates at the WWTP are increased during wet weather conditions.
- Flows of at least 75+ mgd at the WWTP are treated to permit limits.

Combined Sewer System Report for 2008

Section 7

**Table 7-1
 CSO Regulators Diversion Capacities**

CSO No.	Designation	EST. DWF ¹ mgd	REG CAP ² mgd	CAP ³ Ratio = ----- DWF
Northside James River Park CSO Area				
007	Byrd Street	0.062	3.50	76.1
008	Sixth Street	0.093	3.32	70.9
009	Seventh Street	0.047	1.30	303.4
010	Gambles Hill	0.234	1.90	109.1
011	Park Hydro	0.645	14.33	43.9
Southside James River Park CSO Area				
015	Canoe Run	0.889	5.54	12.0
016	Woodland Heights	0.150	1.83	14.9
017	Reedy Creek	1.159	9.98	12.5
018	42nd Street	0.263	1.24	4.1
Hampton Street CSO Area				
033	Shields Lake	0.076	11.38	805.6
019	Hampton & Colorado	0.582	6.42	13.3
McCloy Street CSO Area				
020	McCloy Street	0.396	4.87	12.6
Wastewater Treatment Plant CSO Area				
014	Stockton Street	0.82	17.00	20.73
013	Maury Street	0.04	1.13	20.25
021	Gordon Avenue	1.22	6.14	5.03

¹ Estimated average daily dry weather flow.

² Regulator diversion capacity to intercepting sewer. Revised per model in Combined Sewer Overflow Study (CSO), Long-Term CSO Control Plan Evaluation, Final Report, January 2002.

³ Revised January 2002.

Combined Sewer System Report for 2008

Section 7

CSO No.	Designation	EST. DWF ¹ mgd	REG CAP ² mgd	CAP ³ Ratio = ----- DWF
Gillies Creek CSO Area				
002	Orleans Street	0.04	1.05	26.25
003	Nicholson Street	0.03	0.91	30.33
004	Bloody Run	0.18	3.48	19.33
005	Peach Street	0.04	6.23	155.75
023	Old Fulton Street Bridge	0.00	0.00	N/A
024	Gillie & Varina Streets	0.17	2.18	12.82
025	Briel Street & Gillies Creek	0.13	1.95	15.00
026	Gov't Road & NSRR	0.12	0.76	6.33
027	New Williamsburg Road	0.00	0.00	N/A
028	Williamsburg Road	0.10	5.33	53.30
031	Oakwood Cemetery	0.23	20.21	87.86
035	29th & Dock Streets	0.05	7.96	159.20
039	Gov't Road & Gillies Creek	0.30	2.70	9.00
Shockoe Creek CSO Area				
006	Shockoe Creek	16.75	51.00	3.04
034	19th & Dock Streets	0.29	5.25	18.10
Hilton Street CSO Area				
012	Hilton Street	0.01	1.22	122.00

Combined Sewer System Report for 2008

Section 8

Section 8 Eliminate Dry Weather Overflows

8.1 General

The CSS retention and diversion facilities and pumping stations were regularly maintained (see Section 4 - Proper Operation and Maintenance) to prevent dry weather overflows. The Shockoe retention facilities are continuously manned. The Hampton-McCloy Retention Tunnel is operated remotely from the WWTP with regular inspections.

The CSS diversion facilities are all designed to convey to the WWTP flow rates that are substantially in excess of dry weather conditions as shown in Table 7-1.

Blockages or other circumstances can result in dry weather discharges from the CSS. Some discharges may occur occasionally in the system or at combined sewer outfalls as a consequence of blockages or damaged properties and are reported in accordance with the VPDES permit.

The City maintains an "on call" team of maintenance personnel to respond to blockages or other occurrences that could result in dry weather discharges. The "on call" team responds to incidents relayed by duty personnel. "On call" maintenance personnel have been trained in maintenance and corrective action procedures required for CSS retention and diversion facilities and pumping stations.

Combined Sewer System Report for 2008

Section 9

Section 9 Control of Solid and Floatable Material in CSOs

9.1 General

Measures implemented to control solid and floatable material in CSOs are summarized as follows:

- Continuous mechanical screening at the Shockoe Retention Facilities and Hampton-McCloy Retention Tunnel. The Shockoe Retention Facilities facility provides screening for over two-thirds of the CSS. The Hampton-McCloy Retention Tunnel screens an additional 1,012 acres of the CSS. Estimated average annual overflow for the CSS was summarized in *Table 7-1* of the *CSS Documentation Report on Nine Minimum Controls* dated December 1996. The Shockoe Retention Facilities screens approximately 58 percent of the total flow generated in the CSS.
- The construction of the Northside and Southside James River Park CSO conveyance facilities are completed and include flotation or stilling chambers and/or static screens along with baffles to capture solid and floatable material. The material captured is transferred to the intercepting sewers for removal at the WWTP.
- The Hampton-McCloy Retention Tunnel for the McCloy and Hampton CSOs are equipped with solid and floatable capture chambers. All flow captured in the retention tunnel is screened prior to transfer to the WWTP.
- All flow captured in retention facilities was transferred to the WWTP for complete treatment.
- All increase in flow received at the WWTP during wet weather events (e.g. all flow above the nominal DWF of 45 mgd) received complete treatment.
- Screening operations at the Shockoe Retention Facilities were increased during leaf season.
- The City's Department of Public Works continued to conduct a loose leaf collection program. The program is summarized in APPENDIX 9-1. The City's packaged leaf and yard waste program was combined with regular household waste collections after May 2000.
- The City's Department of Public Works continued to document a regular catch basin cleaning program. See Section 2, Proper Operations and Maintenance.
- The City's Department of Public Works continued to document regular litter control program. See Section 10, Pollution Prevention.
- The City's Department of Public Works continued and document regular street cleaning. See Section 10, Pollution Prevention.

The foregoing programs provide capture and removal of solid and floatable material that would otherwise be discharged at CSO outlets during wet weather events.

Combined Sewer System Report for 2008

Section 10

Section 10 Pollution Prevention

10.1 General

Pollution prevention programs and currently ongoing activities performed by the City are summarized as follows:

- The WWTP conducts periodic facility tours for public groups, (i.e., grade and high school classes, civic and environmental organizations, college classes, medical groups, Girl and Boy Scout troops). On each tour the plant treatment process and the combined sewer system are explained. Proper disposal of household wastes, leaves, and use of fertilizer are also reviewed during tours. Four tours were conducted this year. Documentation of the City's facility tours is shown in APPENDIX 10-1.
- Adopt-a-Spot/Street program where citizens, civic and merchant associations receive recognition for maintaining an area of the city. Over 60 areas have been adopted. Documentation of the City's Adopt-a-Spot Street program is shown in APPENDIX 10-2.
- Clean City Business Award: Richmond Clean City Commission presents awards to encourage competition among businesses to clean up; no awards were presented in 2008.
- Industries are required to retain stormwater onsite during wet weather events for later release to the WWTP for treatment (see Section 6 - Review and Modify Industrial Pretreatment Requirements).
- The City continues to operate a septage hauler dumping station at Brander Street Pumping Station. The septage hauler connects his tank truck to the dump station and septage is metered as it is unloaded. Septage is screened at this station and all waste flows to the WWTP for treatment to permit levels. The Environmental Compliance Officer at the Richmond WWTP maintains a list of haulers and typical surcharge volume data.
- The City collects trash from waste baskets located around the City daily. Documentation of trash collection is shown in APPENDIX 10-3.
- The City conducts a street cleaning program, which removes over 21,279 tons of debris during street sweeping of over 22,000 miles of the City's streets. See APPENDIX 10-4 for documentation of this activity.
- The City has contracted to private agencies a regular schedule of street scrubbing in the downtown area.
- The City of Richmond hosted a dedication for a New Household Hazardous Waste Facility on March 3, 2008 at East Richmond Road Convenience Center. Disposal of household hazardous waste items was open to City of Richmond residents only (no businesses). Household hazardous waste items accepted are solvents, paints, fuels, propane tanks, car fluids, batteries, cooking oil. The East Richmond Road Convenience Center at 3800 East Richmond Road, accepts household hazardous waste from 7 a.m. to 4:30 p.m. weekdays and from 9 a.m. to 2 p.m. on Saturdays.



Combined Sewer System Report for 2008

Section 11

Section 11 Public Notification

11.1 General

During preparation of its long term CSO control plan (Project D-1 from 1988 CSO Study), the City conducted an extensive public notification and participation program. Following adoption of Project D-1 by City Council, the Study was reviewed by the Virginia Department of Environmental Quality (VDEQ). During VDEQ review, the Virginia Water Control Board (VWCB or Board) held several public meetings/hearings on the proposed plan and in March 1989, the Board approved the City's long-term CSO control plan.

Over the course of public notification and involvement, hundreds of people were made aware of the CSS and efforts being made to control wet weather situations. Principal public agencies and interest groups actively involved in the process include the following:

- Richmond City Council
- Richmond Departments of Public Utilities and Parks
- Virginia Water Control Board
- Virginia Department of Environmental Quality
- USEPA, Region III
- The Falls of the James Scenic River Advisory Committee
- The Chesapeake Bay Foundation
- The Environmental Defense Fund
- The James River Association
- The Southern Environmental Law Center
- Neighborhood and Recreational Groups

11.1.1 CSO Warning Signs

Twenty-two (22) of thirty-two (32) CSOs were predicted to discharge, on an average, more than once per summer and therefore, each of them required a CSO warning sign per the VPDES permit. These signs were erected, and are maintained by DPU, Wastewater Division.

11.1.2 CSO Control Plan Public Notification and Participation

The program conducted by the City was diagrammed on Figure 11-1 and is summarized in *Appendix 11-1* of the *CSS Documentation Report on Nine Minimum Controls* dated December 1996.

Combined Sewer System Report for 2008

Section 11

11.1.3 Regulatory Agencies Public Process

Public activities and involvement during regulatory agency review and approval process leading to implementation of the City's CSO control plan was diagrammed on *Figure 11-2* of the *Combined Sewer System Annual Report* for 1997.

During 2008, the City participated in the following meetings with regulatory agencies:

Agency	Subject
Virginia DEQ	Biological Nutrient Removal Water Quality Standard Coordination Nutrient Trading Program CSO Program Review
Corps of Engineers	CSO Program Review Flood Wall Review Shockoe Bottom Drainage

11.1.4 Community Meetings

The City meets with local community (neighborhood) groups on an as needed basis to provide information on activities involving CSO control projects. During 2008, the City held the following Citizen Input and Community Meetings:

1. CSO Presentation – CSO Wet Weather Partnership – April 18
2. Stormwater Drainage Improvement – Tuckahoe – Greenway Presentation – October 15 at Mary Munford Elementary School
3. CSO 101 Presentation – DEQ, WR&A, October 9
4. Ernesto Presentation – WEFTEC - October 12
5. CSO Program and Financing Review – Virginia Secretary of Finance – October 27
6. Annual Large Customer Volume Meeting – November 6 at DPU Operations Center
7. Stormwater Community Meeting – 501c3 Organizations – December 11 at St. Luke Lutheran Church
8. CSO Updates – Falls of the James – December 18

11.1.5 Local Press Coverage

Newspaper coverage of the CSS is ongoing. Examples of public information being provided were summarized in *Appendix 9-2* of the *CSS Documentation Report on Nine Minimum Controls* dated December 1996. Documentation of the City's CSS newspaper coverage is shown in APPENDIX 11-1.

11.1.6 CSO Overflow Reporting:

The City implemented a program that enters monthly rainfall data into the City's dynamic hydrologic model of the city's sewer collection system. The model can predict CSO events due to rainfall by

Combined Sewer System Report for 2008

Section 11

location, magnitude and duration of CSO events. The City provides the model results, presented in tables and charts, which are uploaded monthly to the City's CSO webpage. The CSO webpage also provides charts of historic data for each CSO location, along with the current data. The information provided can assist the public with event planning. A typical month of tables and charts for December, 2008 is shown in APPENDIX 11-2.

11.1.7 CSO Public Notification:

The City implemented a web based notification of CSO events in real time based on rainfall readings. A citizen can subscribe to the notification on the City's Department of public utilities web site. CSO notification was sent to the registered e-mail addresses of citizens.

11.1.8 CSO Web Animation:

The City is preparing a 3D visual graphic presentation of the major components of the combined sewer collection system purpose of public education. The 3D graphics will be animated and narrated to describe to the viewer the dynamic process of collecting and managing combined sewer flow. The animation shows the viewer sources of combined sewer including residential and rainfall dependent inflow and infiltration. The animation will demonstrate the fundamental operation of a sewer flow regulator and how a CSO can occur. Specific facilities within the City's collections system will be highlighted, including the Hampton/McCloy CSO storage tunnel and the Shockoe Retention Basin and Outfall. The City's 100 year floodplain will also featured as an animated segment.

The 3D visual graphic presentation will be available to the public through the City's CSO webpage. The animation will be presented in short, easily viewed segments. The webpage will include an interactive map that a visitor may click on to display different segments of the animation. This interactivity will invite a visitor to view the animated segments in a specific order or allow the visitor the flexibility to view whichever segment they choose. The City plans to upload this to the City's CSO webpage in 2009.

Combined Sewer System Report for 2008

Section 12

Section 12 Monitoring

12.1 General

See Section 3, Monitoring of James River and Shockoe Creek Outfall, for details relative to the Shockoe CSO Monitoring program and James River Sampling and Monitoring program.



Combined Sewer System Report for 2008

APPENDICES

Combined Sewer System Report for 2008

APPENDIX 4-1

Tide Gate, Regulators and CSO Outfalls

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008

MONTH: JAN.

SIGNATURE: *[Signature]*

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P/M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W	1-17-08		NO WATER OVER WEIR
19	Hampton-CO		R	1-17-08		NORMAL FLOW & NO BYPASS
19	Hampton-NY	James River	R	1-17-08		NORMAL FLOW & NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF	1-17-08		NORMAL FLOW & NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF	1-11-08		SMALL AMOUNT OF WATER
10	Gambles Hill	Haxall Canal	R TF	1-11-08		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF	1-11-08		NORMAL FLOW & NO BYPASS
8	6th Street	Haxall Canal	R	1-11-08		NORMAL FLOW TO 7 th ST. REGULATOR
7	Byrd Street	James River	R TF	1-11-08		NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF	1-14-08		NORMAL FLOW & NO BYPASS
17	Reedy Creek	James River	R TF	1-14-08		NORMAL FLOW & NO BYPASS
16	Woodland Heights	James River	R TF	1-14-08		NORMAL FLOW & NO BYPASS
15	Canoe Run	James River	R TF	1-14-08		NORMAL FLOW & NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	1-14-08		NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	1-15-08		BAR RACK NEED TO BE CLEANED
34	19th and Dock Street	Richmond Dock Canal	R	1-15-08		NO BYPASS FROM MAIN ST. LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	1-15-08		GATE CLOSED & NO BYPASS
13	Maury Street	Manchester Canal	R	1-15-08		GATE CLOSED & NO BYPASS
21	Gordan Avenue	James River	R	1-15-08		GATE CLOSED & NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R	1-7-08		NORMAL FLOW & NO BYPASS
3	Nicholson Street	James River	R	1-7-08		NORMAL FLOW & NO BYPASS
4	Bloody Run	Gillies Creek	R	1-7-08		VERY GOOD FLOW & NO BYPASS
5	Peach Street	James River	R	1-7-08		NORMAL FLOW & NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	1-7-08		GATE CLOSED & NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	1-7-08		GATE CLOSED & NO OVER FLOW
25	Briel Street and Gillies Creek	Gillies Creek	R	1-7-08		NO OVER FLOW FROM CSO LINE
26	Gov't Road and NSRR	Gillies Creek	R	1-8-08		NO OVER FLOW FROM CSO LINE
27	New Williamsburg Road	Gillies Creek	R	1-8-08		GATE CLOSED & NO GROUND WATER
28	Williamsburg Road	Gillies Creek	R	1-8-08		GATE CLOSED & NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R	1-8-08		NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R	1-8-08		NO WATER IN LINE
39	Gov't Road and Gillies Creek	Gillies Creek	R	1-8-08		NO OVER FLOW FROM CSO
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	1-8-08		NO BYPASS FROM CSO LINE
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		1-10-08		TANK & BLOWER IS OK
	14th & Semmes Ave		PS	1-10-08		DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.		1-10-08		NO WATER IN CONNECTION LINE
	Maryland Ave	Connection to Henrico Co.		1-10-08		NO WATER IN CONNECTION LINE
	Seminary Ave	Connection to Henrico Co.		1-10-08		NO WATER IN CONNECTION LINE
	Pine Alley	Drain Boxes		1-10-08		NO WATER STANDING IN DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL, PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008

MONTH: FEB.

SIGNATURE: *[Handwritten Signature]*

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W		2-26-08	NO WATER OVER WEIR
19	Hampton-CO		R		2-26-08	NORMAL FLOW & NO BYPASS
19	Hampton-NY	James River	R		2-26-08	NORMAL FLOW & NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF		2-26-08	NORMAL FLOW & NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF		2-14-08	SMALL AMOUNT WATER TO REGULATOR
10	Gambles Hill	Haxall Canal	R TF		2-14-08	NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF		2-14-08	NORMAL FLOW & NO BYPASS
8	6th Street	Haxall Canal	R		2-14-08	NORMAL FLOW TO 7 th ST. REGULATOR
7	Byrd Street	James River	R TF		2-14-08	NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF		2-19-08	NORMAL FLOW & NO BYPASS
17	Reedy Creek	James River	R TF		2-19-08	NORMAL FLOW & NO BYPASS
16	Woodland Heights	James River	R TF		2-19-08	NORMAL FLOW & NO BYPASS
15	Canoe Run	James River	R TF		2-19-08	NORMAL FLOW & NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO		2-19-08	NO OVER FLOW FROM CSO
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG		2-21-08	BAR RACK NEEDED TO BE CLEANING
34	19th and Dock Street	Richmond Dock Canal	R		2-21-08	NO BYPASS TO THE CANAL
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R		2-20-08	GATE CLOSED & NORMAL FLOW
13	Maury Street	Manchester Canal	R		2-20-08	GATE CLOSED & NORMAL FLOW
21	Gordan Avenue	James River	R		2-20-08	GATE CLOSED & NORMAL FLOW
Gillies Creek CSO Area						
2	Orleans Street	James River	R		2-25-08	NORMAL FLOW & NO BYPASS
3	Nicholson Street	James River	R		2-25-08	NORMAL FLOW & NO BYPASS
4	Bloody Run	Gillies Creek	R		2-25-08	NORMAL FLOW & NO BYPASS
5	Peach Street	James River	R		2-25-08	NORMAL FLOW & NO RIVER WATER
23	Old Fulton Street Bridge	Gillies Creek	R		2-25-08	GATE CLOSED & NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R		2-22-08	NO OVER FLOW FROM CSO LINE
25	Briel Street and Gillies Creek	Gillies Creek	R		2-22-08	NO OVER FLOW FROM CSO LINE
26	Gov't Road and NSRR	Gillies Creek	R		2-22-08	SMALL AMOUNT OF GROUND WATER
27	New Williamsburg Road	Gillies Creek	R		2-22-08	GROUND WATER & NO SEWAGE
28	Williamsburg Road	Gillies Creek	R		2-22-08	GATE CLOSED & NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R		2-26-08	NO OVER FLOW FROM CSO LINE
35	29th and Dock Street	Richmond Dock Canal	R		2-26-08	NO OVER FLOW FROM CSO LINE
39	Gov't Road and Gillies Creek	Gillies Creek	R		2-26-08	GATE CLOSED & NO GROUND WATER
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R		2-26-08	NORMAL FLOW & NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System			2-15-08	TANK & BLOWER IS OK
	14th & Semmes Ave		PS			DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.			2-15-08	NO WATER IN CONNECTION LINE
	Maryland Ave	Connection to Henrico Co.			2-15-08	NO WATER IN CONNECTION LINE
	Seminary Ave	Connection to Henrico Co.			2-15-08	NO WATER IN CONNECTION LINE
	Pine Alley	Drain Boxes			2-15-08	NO WATER STANDING IN DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL, PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008

MONTH: MARCH

SIGNATURE: *[Signature]*

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W	3-28-08		NO WATER OVER WEIR
19	Hampton-CO		R	3-28-08		NORMAL FLOW & NO BYPASS
19	Hampton-NY	James River	R	3-28-08		NORMAL FLOW & NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF	3-28-08		NORMAL FLOW & NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF	3-17-08		SMALL AMOUNT OF WATER TO REGULATOR
10	Gambles Hill	Haxall Canal	R TF	3-17-08		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF	3-17-08		NORMAL FLOW TO REGULATOR
8	6th Street	Haxall Canal	R	3-17-08		NORMAL FLOW TO 7 th REGULATOR
7	Byrd Street	James River	R TF	3-17-08		NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF	3-19-08		NORMAL FLOW & NO BYPASS
17	Reedy Creek	James River	R TF	3-19-08		NORMAL FLOW & NO BYPASS
16	Woodland Heights	James River	R TF	3-19-08		NORMAL FLOW & NO BYPASS
15	Canoe Run	James River	R TF	3-19-08		NORMAL FLOW & NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	3-19-08		NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	3-25-08		ALL GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R	3-25-08		NO OVER FLOW FROM MAIN ST LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	3-24-08		NORMAL FLOW & NO BYPASS
13	Maury Street	Manchester Canal	R	3-24-08		NORMAL FLOW & NO BYPASS
21	Gordan Avenue	James River	R	3-24-08		NORMAL FLOW & NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R	3-26-08		NORMAL FLOW & NO BYPASS
3	Nicholson Street	James River	R	3-26-08		NORMAL FLOW & NO BYPASS
4	Bloody Run	Gillies Creek	R	3-26-08		NORMAL FLOW & NO BYPASS
5	Peach Street	James River	R	3-26-08		NORMAL FLOW & NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	3-26-08		GATE CLOSED & NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	3-26-08		GATE CLOSED & NO OVER FLOW
25	Briel Street and Gillies Creek	Gillies Creek	R	3-27-08		NO OVER FROM CSO LINE
26	Gov't Road and NSRR	Gillies Creek	R	3-27-08		NO OVER FROM CSO LINE
27	New Williamsburg Road	Gillies Creek	R	3-27-08		NO OVER FROM CSO LINE
28	Williamsburg Road	Gillies Creek	R	3-27-08		NO OVER FLOW FROM CSO LINE
31	Oakwood Cemetery	Stoney Run	R	3-27-08		NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R	3-27-08		NEED TO BE CLEAN
39	Gov't Road and Gillies Creek	Gillies Creek	R	3-27-08		GATE CLOSED & NO GROUND WATER
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	3-27-08		NORMAL FLOW WITH NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		3-18-08		TANK & BLOWER IS OK
	14th & Semmes Ave		PS	3-18-08		DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.		3-18-08		NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co.		3-18-08		NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co.		3-18-08		NO WATER IN LINE
	Pine Alley	Drain Boxes		3-18-08		NO WATER STANDING DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL, PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008

MONTH: April

SIGNATURE: [Signature]

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W		4-24-08	NO WATER OVER WEIR
19	Hampton-CD		R		4-24-08	NORMAL FLOW & NO BYPASS
19	Hampton-NY	James River	R		4-24-08	NORMAL FLOW & NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF		4-24-08	NORMAL FLOW & NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF		4-15-08	NORMAL FLOW & NO BYPASS
10	Gambles Hill	Haxall Canal	R TF		4-15-08	NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF		4-15-08	NORMAL FLOW & NO BYPASS
8	8th Street	Haxall Canal	R		4-15-08	NORMAL FLOW TO 7 th ST. REGULATOR
7	Byrd Street	James River	R TF		4-15-08	NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF		4-14-08	NORMAL FLOW & NO BYPASS
17	Reedy Creek	James River	R TF		4-14-08	NORMAL FLOW & NO BYPASS
16	Woodland Heights	James River	R TF		4-14-08	NORMAL FLOW & NO BYPASS
15	Canoe Run	James River	R TF		4-14-08	NORMAL FLOW & NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO		4-14-08	NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG		4-22-08	BAR RACK NEED TO CLEAN
34	19th and Dock Street	Richmond Dock Canal	R		4-22-08	NO OVER FROM MAIN ST. LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R		4-15-08	NORMAL FLOW & NO BYPASS
13	Maury Street	Manchester Canal	R		4-15-08	NORMAL FLOW & NO BYPASS
21	Gordan Avenue	James River	R		4-15-08	NORMAL FLOW & NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R		4-25-08	NORMAL FLOW & NO BYPASS
3	Nicholson Street	James River	R		4-25-08	NORMAL FLOW & NO BYPASS
4	Bloody Run	Gillies Creek	R		4-25-08	NORMAL FLOW & NO BYPASS
5	Peach Street	James River	R		4-25-08	NORMAL FLOW & NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R		4-25-08	GATE CLOSED WITH SMALL AMOUNT OF WATER
24	Gillie and Varina Streets	Gillies Creek	R		4-25-08	NO OVER FLOW FROM CSO LINE
25	Briel Street and Gillies Creek	Gillies Creek	R		4-25-08	NO OVER FLOW FROM CSO LINE
26	Gov't Road and NSRR	Gillies Creek	R		4-25-08	NO OVER FLOW FROM CSO LINE
27	New Williamsburg Road	Gillies Creek	R		4-25-08	NO OVER FLOW FROM CSO LINE
28	Williamsburg Road	Gillies Creek	R		4-25-08	GATE CLOSED & NO WATER
31	Oakwood Cemetery	Stoney Run	R		4-25-08	NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R		4-25-08	NO OVER FROM CSO LINE
39	Gov't Road and Gillies Creek	Gillies Creek	R		4-25-08	GATE CLOSED
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R		4-25-08	NORMAL FLOW & NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System			4-16-08	TANK & BLOWER OK
	14th & Semmes Ave		PS		4-16-08	DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.			4-16-08	NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co.			4-16-08	NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co.			4-16-08	NO WATER IN LINE
	Pine Alley	Drain Boxes			4-16-08	NO WATER STANDING IN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL, PS= PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008

MONTH: MAY

SIGNATURE: [Handwritten Signature]

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W	5-29-08		NO WATER OVER WEIR
19	Hampton-CO		R	5-29-08		NORMAL FLOW & NO BYPASS
19	Hampton-NY	James River	R	5-29-08		NORMAL FLOW & NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF	5-29-08		NORMAL FLOW & NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF	5-13-08		SMALL AMOUNT OF WATER
10	Gambles Hill	Haxall Canal	R TF	5-13-08		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF	5-13-08		NORMAL FLOW & NO BYPASS
8	6th Street	Haxall Canal	R	5-13-08		NORMAL FLOW TO 7 th ST. REGULATOR
7	Byrd Street	James River	R TF	5-13-08		NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF	5-12-08		NORMAL FLOW & NO BYPASS
17	Reedy Creek	James River	R TF	5-12-08		NORMAL FLOW & NO BYPASS
16	Woodland Heights	James River	R TF	5-12-08		NORMAL FLOW & NO BYPASS
15	Canoe Run	James River	R TF	5-12-08		NORMAL FLOW & NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	5-12-08		NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	5-23-08		ALL GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R	5-23-08		NO BYPASS FROM MAIN ST. LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	5-23-08		NORMAL FLOW & NO BYPASS
13	Maury Street	Manchester Canal	R	5-23-08		NORMAL FLOW & NO BYPASS
21	Gordan Avenue	James River	R	5-23-08		NORMAL FLOW & NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R	5-27-08		NORMAL FLOW & NO BYPASS
3	Nicholson Street	James River	R	5-27-08		NORMAL FLOW & NO BYPASS
4	Bloody Run	Gillies Creek	R	5-27-08		NORMAL FLOW & NO BYPASS
5	Peach Street	James River	R	5-27-08		NORMAL FLOW & NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	5-27-08		GATE CLOSED & NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	5-27-08		NO OVER FLOW FROM CSO LINE
25	Briel Street and Gillies Creek	Gillies Creek	R	5-27-08		NO OVER FLOW FROM CSO LINE
26	Gov't Road and NSRR	Gillies Creek	R	5-28-08		NO OVER FLOW FROM NEW REGULATOR
27	New Williamsburg Road	Gillies Creek	R	5-28-08		NO OVER FLOW FROM CSO LINE
28	Williamsburg Road	Gillies Creek	R	5-28-08		GATE CLOSED & NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R	5-28-08		NO OVER FLOW OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R	5-28-08		NEED TO BE CLEANED
39	Gov't Road and Gillies Creek	Gillies Creek	R	5-28-08		NO OVER FLOW FROM CSO LINE
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	5-28-08		NORMAL FLOW & NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		5-14-08		TANK & BLOWER IS OK
	14th & Semmes Ave		PS			DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.		5-14-08		NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co.		5-14-08		NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co.		5-14-08		NO WATER IN LINE
	Pine Alley	Drain Boxes		5-14-08		NO WATER STANDING IN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL, PS = PUMP STATION

June

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: _____

MONTH: _____

SIGNATURE: _____

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W		6-30-08	NO WATER OVER WEIR
19	Hampton-CO		R		6-30-08	NORMAL FLOW & NO BYPASS
19	Hampton-NY	James River	R		6-30-08	NORMAL FLOW & NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF		6-30-08	NORMAL FLOW TO THE TUNNEL
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF		6-17-08	SMALL AMOUNT OF WATER TO THE REGULATOR
10	Gambles Hill	Haxall Canal	R TF		6-17-08	NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF		6-17-08	NORMAL FLOW WITH NO BYPASS
8	6th Street	Haxall Canal	R		6-17-08	NORMAL FLOW TO 7 th ST REGULATOR
7	Byrd Street	James River	R TF		6-17-08	NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF		6-16-08	NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R TF		6-16-08	NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R TF		6-16-08	NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R TF		6-16-08	NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO		6-16-08	NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG		6-23-08	BAR RACK NEED TO BE CLEANED
34	19th and Dock Street	Richmond Dock Canal	R		6-23-08	NO BYPASS FROM MAIN ST. LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R		6-23-08	NORMAL FLOW & NO BYPASS
13	Maury Street	Manchester Canal	R		6-23-08	NORMAL FLOW & NO BYPASS
21	Gordan Avenue	James River	R		6-23-08	NORMAL FLOW & NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R		6-27-08	NORMAL FLOW & NO BYPASS
3	Nicholson Street	James River	R		6-27-08	NORMAL FLOW & NO BYPASS
4	Bloody Run	Gillies Creek	R		6-27-08	NORMAL FLOW & NO BYPASS
5	Peach Street	James River	R		6-27-08	NORMAL FLOW & NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R		6-27-08	GATE CLOSED & NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R		6-27-08	NEW REGULATOR NORMAL FLOW
25	Briel Street and Gillies Creek	Gillies Creek	R		6-27-08	NEW REGULATOR NORMAL FLOW
26	Gov't Road and NSRR	Gillies Creek	R		6-26-08	NEW REGULATOR NORMAL FLOW
27	New Williamsburg Road	Gillies Creek	R		6-26-08	NO OVER FLOW FROM CSO LINE
28	Williamsburg Road	Gillies Creek	R		6-26-08	GATE CLOSED & NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R		6-26-08	NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R		6-26-08	NEED TO BE CLEANED
39	Gov't Road and Gillies Creek	Gillies Creek	R		6-26-08	GATE CLOSED & NO GROUND WATER
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R		6-26-09	NORMAL FLOW & NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System			6-18-08	BLOWER & TRAP IS OK
	14th & Semmes Ave		PS			DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.			6-18-08	NO WATER IN CONNECTION LINE
	Maryland Ave	Connection to Henrico Co.			6-18-08	NO WATER IN CONNECTION LINE
	Seminary Ave	Connection to Henrico Co.			6-18-08	NO WATER IN CONNECTION LINE
	Pine Alley	Drain Boxes			6-18-08	NO WATER STANDING DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL; PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008
MONTH: July

SIGNATURE: _____

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W	7-21-08		NO WATER OVER WEIR
19	Hampton-CO		R	7-21-08		NORMAL FLOW WITH NO BYPASS
19	Hampton-NY	James River	R	7-21-08		NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF	7-21-08		NORMAL FLOW TO THE TUNNEL
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF	7-9-08		SMALL AMOUNT OF WATER
10	Gambles Hill	Haxall Canal	R TF	7-9-08		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF	7-9-08		NORMAL FLOW & NO BYPASS
8	8th Street	Haxall Canal	R TF	7-9-08		NORMAL FLOW TO TEST REGULATED
7	Byrd Street	James River	R TF	7-9-08		NO OVER FLOW FROM CSO
Southside James River Park CSO Area						
18	42nd Street	James River	R TF	7-8-08		NORMAL FLOW & NO BYPASS
17	Reedy Creek	James River	R TF	7-8-08		NORMAL FLOW & NO BYPASS
16	Woodland Heights	James River	R TF	7-8-08		NORMAL FLOW & NO BYPASS
15	Canoe Run	James River	R TF	7-8-08		NORMAL FLOW & NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	7-8-08		NO OVER FLOW FROM CSO
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	7-17-08		PLS CLEANING BAR RACK
34	19th and Dock Street	Richmond Dock Canal	R	7-17-08		NO OVER FLOW FROM MAIN ST.
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	7-16-08		NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R	7-16-08		NORMAL FLOW WITH NO BYPASS
21	Gordan Avenue	James River	R	7-16-08		NORMAL FLOW WITH NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R	7-17-08		NORMAL FLOW WITH NO BYPASS
3	Nicholson Street	James River	R	7-18-08		NORMAL FLOW WITH NO BYPASS
4	Bloody Run	Gillies Creek	R	7-17-08		NORMAL FLOW WITH NO BYPASS
5	Peach Street	James River	R	7-17-08		NORMAL FLOW WITH NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	7-17-08		GATE CLOSED WITH NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	7-17-08		NORMAL FLOW WITH NO BYPASS
25	Briel Street and Gillies Creek	Gillies Creek	R	7-17-08		NORMAL FLOW WITH NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R	7-17-08		NORMAL FLOW WITH NO BYPASS
27	New Williamsburg Road	Gillies Creek	R	7-18-08		GATE CLOSED NO GROUND WATER
28	Williamsburg Road	Gillies Creek	R	7-18-08		NO OVER FLOW FROM CSO LINE
31	Oakwood Cemetery	Stoney Run	R	7-18-08		NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R	7-18-08		NEED TO BE CLEANING
39	Gov't Road and Gillies Creek	Gillies Creek	R	7-18-08		GATE CLOSED & NO GROUND WATER
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	7-18-08		NORMAL FLOW WITH NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		7-15-08		BLOWER & TANK IS OK
	14th & Semmes Ave		PS			DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.		7-15-08		NO WATER IN CONNECTION LINE
	Maryland Ave	Connection to Henrico Co.		7-15-08		NO WATER IN CONNECTION LINE
	Seminary Ave	Connection to Henrico Co.		7-15-08		NO WATER IN CONNECTION LINE
	Pine Alley	Drain Boxes		7-15-08		NO WATER STANDING IN DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL; PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008

MONTH: AUG.

SIGNATURE: *[Handwritten Signature]*

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W	8-21-08		NO WATER OVER WEIR
19	Hampton-CO		R	8-21-08		NORMAL FLOW & NO BYPASS
19	Hampton-NY	James River	R	8-21-08		NORMAL FLOW & NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF	8-21-08		NORMAL FLOW TO THE STATION
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF	8-18-08		VERY LITTLE FLOW
10	Gambles Hill	Haxall Canal	R TF	8-18-08		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF	8-18-08		NORMAL FLOW + NO BYPASS
8	6th Street	Haxall Canal	R	8-18-08		NORMAL FLOW TO WEST REGULATOR
7	Byrd Street	James River	R TF	8-18-08		NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF	8-13-08		NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R TF	8-13-08		NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R TF	8-13-08		NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R TF	8-13-08		NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	8-13-08		NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	8-19-08		BAR RACK CLEANED GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R	8-19-08		NO BYPASS FROM MAIN ST. LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	8-19-08		GATE CLOSED & NO BYPASS
13	Maury Street	Manchester Canal	R	8-19-08		GATE CLOSED & NO BYPASS
21	Gordan Avenue	James River	R	8-19-08		GATE CLOSED & NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R	8-11-08		NORMAL FLOW & NO BYPASS
3	Nicholson Street	James River	R	8-11-08		NORMAL FLOW & NO BYPASS
4	Bloody Run	Gillies Creek	R	8-11-08		NORMAL FLOW & NO BYPASS
5	Peach Street	James River	R	8-11-08		NORMAL FLOW & NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	8-11-08		GATE CLOSED & NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	8-11-08		NORMAL FLOW & NO BYPASS
25	Briel Street and Gillies Creek	Gillies Creek	R	8-12-08		NORMAL FLOW & NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R	8-12-08		NORMAL FLOW & NO BYPASS
27	New Williamsburg Road	Gillies Creek	R	8-12-08		NO OVER FLOW FROM CSO LINE
28	Williamsburg Road	Gillies Creek	R	8-12-08		GATE CLOSED & NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R	8-12-08		NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R	8-12-08		NEED TO BE CLEANED NO ROAD
39	Gov't Road and Gillies Creek	Gillies Creek	R	8-12-08		NORMAL FLOW
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	8-12-08		NORMAL FLOW & NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		8-20-08		TANK & BLOWER ARE OK
	14th & Semmes Ave		PS			DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.		8-20-08		NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co.		8-20-08		NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co.		8-20-08		NO WATER IN LINE
	Pine Alley	Drain Boxes		8-20-08		NO WATER STANDING IN DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL, PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008

MONTH: SEPT

SIGNATURE: [Signature]

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W	9-29-08		NO WATER OVER WEIR
18	Hampton-CO		R	9-29-08		NORMAL FLOW & NO BYPASS
19	Hampton-NY	James River	R	9-29-08		NORMAL FLOW & NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF	9-29-08		NORMAL FLOW TO THE TUNNEL
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF	9-15-08		SMALL AMOUNT OF WATER
10	Gambles Hill	Haxall Canal	R TF	9-15-08		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF	9-15-08		NORMAL FLOW & NO BYPASS
8	6th Street	Haxall Canal	R	9-15-08		NORMAL FLOW TO 7 th ST. REGULATOR
7	Byrd Street	James River	R TF	9-15-08		NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF	9-8-08		NORMAL FLOW & NO BYPASS
17	Reedy Creek	James River	R TF	9-8-08		NORMAL FLOW & NO BYPASS
16	Woodland Heights	James River	R TF	9-8-08		NORMAL FLOW & NO BYPASS
15	Canoe Run	James River	R TF	9-8-08		NORMAL FLOW & NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	9-8-08		NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	9-15-08		BAZ BACK HAS TRASH ON IT
34	19th and Dock Street	Richmond Dock Canal	R	9-15-08		NO OVER FROM MAIN ST. LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	9-19-08		NORMAL FLOW WITH NO BYPASS
13	Mauzy Street	Manchester Canal	R	9-19-08		NORMAL FLOW WITH NO BYPASS
21	Gordan Avenue	James River	R	9-19-08		NORMAL FLOW WITH NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R	9-11-08		NORMAL FLOW NO BYPASS
3	Nicholson Street	James River	R	9-11-08		NORMAL FLOW NO BYPASS
4	Bloody Run	Gillies Creek	R	9-11-08		NORMAL FLOW NO BYPASS
5	Peach Street	James River	R	9-11-08		NORMAL FLOW NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	9-11-08		GATE CLOSED & NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R	9-11-08		NORMAL FLOW & NO BYPASS
25	Briel Street and Gillies Creek	Gillies Creek	R	9-12-08		NORMAL FLOW & NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R	9-12-08		NORMAL FLOW & NO BYPASS
27	New Williamsburg Road	Gillies Creek	R	9-12-08		NO OVER FLOW FROM CSO LINE
28	Williamsburg Road	Gillies Creek	R	9-12-08		GATE CLOSED NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R	9-12-08		NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R	9-12-08		NO BYPASS FROM MAIN LINE
39	Gov't Road and Gillies Creek	Gillies Creek	R	9-12-08		NORMAL FLOW FROM CSO LINE
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	9-11-08		NORMAL FLOW & NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		9-18-08		TANK & BLOWER IS OK
	14th & Semmes Ave		PS			ONLY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.		9-18-08		NO WATER IN THE LINE
	Maryland Ave	Connection to Henrico Co.		9-18-08		NO WATER IN THE LINE
	Seminary Ave	Connection to Henrico Co.		9-18-08		NO WATER IN THE LINE
	Pine Alley	Drain Boxes		9-18-08		NO WATER STANDING IN DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL; PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008
MONTH: Oct.

SIGNATURE: *[Handwritten Signature]*

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W		10-28-08	NO WATER OVER WEIR
19	Hampton-CO		R		10-28-08	NORMAL FLOW WITH NO BYPASS
19	Hampton-NY	James River	R		10-28-08	NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF		10-28-08	NORMAL FLOW WITH NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF		10-17-08	SMALL AMOUNT OF WATER
10	Gambles Hill	Haxall Canal	R TF		10-17-08	NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF		10-17-08	NORMAL FLOW NO BYPASS
8	6th Street	Haxall Canal	R		10-17-08	NORMAL FLOW TO 7 TH REGULATOR
7	Byrd Street	James River	R TF		10-17-08	NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF		10-15-08	NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R TF		10-15-08	NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R TF		10-15-08	NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R TF		10-15-08	NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO		10-15-08	NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG		10-20-08	ALL GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R		10-20-08	NO OVER FLOW FROM MAIN ST LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R		10-20-08	GATE CLOSED & NO BYPASS
13	Maury Street	Manchester Canal	R		10-20-08	GATE CLOSED & NO BYPASS
21	Gordan Avenue	James River	R		10-20-08	GATE CLOSED & NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R		10-13-08	NORMAL FLOW & NO BYPASS
3	Nicholson Street	James River	R		10-13-08	NORMAL FLOW & NO BYPASS
4	Bloody Run	Gillies Creek	R		10-13-08	NORMAL FLOW & NO BYPASS
5	Peach Street	James River	R		10-13-08	NORMAL FLOW & NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R		10-13-08	GATE CLOSED + NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R		10-13-08	NORMAL FLOW & NO BYPASS
25	Briel Street and Gillies Creek	Gillies Creek	R		10-13-08	NORMAL FLOW & NO BYPASS
26	Gov't Road and NSRR	Gillies Creek	R		10-14-08	NORMAL FLOW & NO BYPASS
27	New Williamsburg Road	Gillies Creek	R		10-14-08	NO OVER FLOW FROM CSO
28	Williamsburg Road	Gillies Creek	R		10-14-08	GATE CLOSED NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R		10-14-08	NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R		11-11-08	MAN HOLE NEEDED TO BE CLEANED
39	Gov't Road and Gillies Creek	Gillies Creek	R		10-14-08	NORMAL FLOW NO BYPASS
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R		10-14-08	NORMAL FLOW & NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System			10-21-08	TANK & BLOWER IS OK
	14th & Semmes Ave		PS			DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.			10-21-08	NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co.			10-21-08	NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co.			10-21-08	NO WATER IN LINE
	Pine Alley	Drain Boxes			10-21-08	NO WATER STANDING IN DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL; PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008
MONTH: NOVEMBER

SIGNATURE: [Signature]

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W	12-4-08		NO WATER OVER WEIR
19	Hampton-CO		R	12-4-08		NORMAL FLOW WITH NO BYPASS
19	Hampton-NY	James River	R	12-4-08		NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF	12-4-08		NORMAL FLOW WITH NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF	11-26-08		SMALL AMOUNT OF WATER
10	Gambles Hill	Haxall Canal	R TF	11-26-08		NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF	11-26-08		NORMAL FLOW WITH NO BYPASS
8	8th Street	Haxall Canal	R	11-26-08		NORMAL FLOW TO 7 TH ST. REGULATOR
7	Byrd Street	James River	R TF	11-26-08		NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF	11-25-08		NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R TF	11-25-08		NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R TF	11-25-08		NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R TF	11-25-08		NORMAL FLOW WITH NO BYPASS
40	CSO-1 OUT/SSJRP	James River	RO	11-25-08		NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG	12-1-08		ALL GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R	12-1-08		NO BYPASS FROM MAIN ST LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R	12-2-08		NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R	12-2-08		NORMAL FLOW WITH NO BYPASS
21	Gordan Avenue	James River	R	12-2-08		NORMAL FLOW WITH NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R	12-18-08		NORMAL FLOW WITH NO BYPASS
3	Nicholson Street	James River	R	12-18-08		NORMAL FLOW WITH NO BYPASS
4	Bloody Run	Gillies Creek	R	12-18-08		NORMAL FLOW WITH NO BYPASS
5	Peach Street	James River	R	12-18-08		NORMAL FLOW WITH NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R	12-18-08		GATE CLOSED
24	Gillie and Varina Streets	Gillies Creek	R	12-18-08		NORMAL FLOW
25	Briel Street and Gillies Creek	Gillies Creek	R	12-19-08		NORMAL FLOW
26	Gov't Road and NSRR	Gillies Creek	R	12-19-08		NORMAL FLOW
27	New Williamsburg Road	Gillies Creek	R	12-19-08		GATE CLOSED
28	Williamsburg Road	Gillies Creek	R	12-19-08		NO OVER FLOW FROM CSO LINE
31	Oakwood Cemetery	Stoney Run	R	12-19-08		NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R	12-19-08		NO OVER FLOW
39	Gov't Road and Gillies Creek	Gillies Creek	R	12-19-08		NO OVER FLOW FROM CSO
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R	12-22-08		NORMAL FLOW WITH NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System		12-3-08		TANK & BLOWER IS OK
	14th & Semmes Ave		PS			DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.		12-3-08		NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co.		12-3-08		NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co.		12-3-08		NO WATER IN LINE
	Pine Alley	Drain Boxes		12-3-08		NO WATER STANDING IN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL; PS = PUMP STATION

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES

CSS CONTROL STRUCTURES MONTHLY INSPECTION SUMMARY

YEAR: 2008
MONTH: DEC.

SIGNATURE: [Signature]

CSO BASIN NUMBER	COMBINED SEWER OVERFLOW NAME	RECEIVING WATER	TYPE DEVICE	INSPECTION DATE	P / M DATE	SERVICES PERFORMED
Hampton Street CSO Area						
33	Shields Lake	Dooleys Branch	W			12-25-08 NO WATER OVER WEIR
19	Hampton-CO		R			12-25-08 NORMAL FLOW WITH NO BYPASS
19	Hampton-NY	James River	R			12-25-08 NORMAL FLOW WITH NO BYPASS
McCloy Street CSO Area						
20	McCloy Street	James River	R TF			12-25-08 NORMAL FLOW WITH NO BYPASS
Northside James River Park CSO Area						
11	Park Hydro	James River	R TF			12-30-08 SMALL AMOUNT OF WATER
10	Gambles Hill	Haxall Canal	R TF			12-30-08 NO WATER OVER WEIR
9	7th Street	Haxall Canal	R TF			12-30-08 NORMAL FLOW & NO BYPASS
8	6th Street	Haxall Canal	R			12-30-08 NORMAL FLOW TO 7 th ST REGULATOR
7	Byrd Street	James River	R TF			12-30-08 NO OVER FLOW FROM CSO LINE
Southside James River Park CSO Area						
18	42nd Street	James River	R TF			12-30-08 NORMAL FLOW WITH NO BYPASS
17	Reedy Creek	James River	R TF			12-30-08 NORMAL FLOW WITH NO BYPASS
16	Woodland Heights	James River	R TF			12-30-08 NORMAL FLOW WITH NO BYPASS
15	Canoe Run	James River	R TF			12-30-08 NORMAL FLOW WITH NO
40	CSO-1 OUT/SSJRP	James River	RO			12-30-08 NO OVER FLOW FROM CSO LINE
Shockoe Creek CSO Area						
6	Shockoe Creek	James River	TG			12-24-08 ALL GATES ARE CLOSED
34	19th and Dock Street	Richmond Dock Canal	R			12-24-08 NO OVER FLOW FROM MAIN ST LINE
Wastewater Treatment Plant CSO Area						
14	Stockton Street	Manchester Canal	R			12-24-08 NORMAL FLOW WITH NO BYPASS
13	Maury Street	Manchester Canal	R			12-24-08 NORMAL FLOW WITH NO BYPASS
21	Gordan Avenue	James River	R			12-24-08 NORMAL FLOW WITH NO BYPASS
Gillies Creek CSO Area						
2	Orleans Street	James River	R			12-22-08 NORMAL FLOW WITH NO BYPASS
3	Nicholson Street	James River	R			12-22-08 NORMAL FLOW WITH NO BYPASS
4	Bloody Run	Gillies Creek	R			12-22-08 NORMAL FLOW WITH NO BYPASS
5	Peach Street	James River	R			12-22-08 NORMAL FLOW WITH NO BYPASS
23	Old Fulton Street Bridge	Gillies Creek	R			12-22-08 GATE CLOSED NO GROUND WATER
24	Gillie and Varina Streets	Gillies Creek	R			12-22-08 NORMAL FLOW
25	Briel Street and Gillies Creek	Gillies Creek	R			12-22-08 NORMAL FLOW
26	Gov't Road and NSRR	Gillies Creek	R			12-22-08 NORMAL FLOW
27	New Williamsburg Road	Gillies Creek	R			12-22-08 NO OVER FLOW FROM CSO LINE
28	Williamsburg Road	Gillies Creek	R			12-22-08 GATE CLOSED NO GROUND WATER
31	Oakwood Cemetery	Stoney Run	R			12-22-08 NO WATER OVER WEIR
35	29th and Dock Street	Richmond Dock Canal	R			12-22-08 NO OVER FLOW
39	Gov't Road and Gillies Creek	Gillies Creek	R			12-22-08 NORMAL FLOW
Hilton Street CSO Area						
12	Hilton Street	Almond Creek	R			12-22-08 NORMAL FLOW WITH NO BYPASS
Miscellaneous Structures						
	Odor Room Canal Walk	Odor Control System				12-23-08 BLOWER & TANK OK
	14th & Semmes Ave		PS			12-23-08 DAILY INSPECTION
	Cary & Maple Ave	Main Connection to Henrico Co.				12-23-08 NO WATER IN LINE
	Maryland Ave	Connection to Henrico Co.				12-23-08 NO WATER IN LINE
	Seminary Ave	Connection to Henrico Co.				12-23-08 NO WATER IN LINE
	Pine Alley	Drain Boxes				12-23-08 NO WATER STANDING DRAIN BOX

TYPE DEVICE: R = REGULATOR; TG = TIDE GATE; W = WEIR; TF = TRANSFER FACILITY; RO = RIVER OUTFALL; PS = PUMP STATION

Combined Sewer System Report for 2008

APPENDIX 4-2

Pump Stations

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1		1290.8	1282.6	1151.1	JW
2		1290.8	1282.6	1153.7	LM
3		1290.8	1282.6	1155.4	JW
4		1290.8	1282.6	1157.3	JW
5		1290.8	1282.6	1158.8	LM
6		1290.8	1282.6	1160.4	LM
7		1290.8	1282.6	1162.5	JWM DDS
8		1290.8	1282.6	1164.7	JWM DDS
9		1290.8	1282.6	1165.6	JWM DDS
10		1290.8	1282.6	1167.0	DDS
11		1290.9	1282.7	1168.8	DDS
12		1290.9	1282.7	1169.8	FOX WJ
13		1290.9	1282.7	1171.3	FOX WJ
14		1290.9	1282.7	1172.9	JW LD
15		1290.9	1282.7	1174.4	JW LD
16		1290.9	1282.7	1176.0	JW LD
17		1290.9	1282.7	1177.4	1177.4 LD JW
18		1290.9	1282.7	1179.9	LM
19		1290.9	1282.7	1181.6	LM
20		1290.9	1282.7	1183.4	LM JW
21		1290.9	1282.7	1185.0	JW LD
22		1290.9	1282.7	1186.8	JW LD
23		1290.9	1282.7	1188.6	JW LD
24		1290.9	1282.7	1190.3	JW LD
25		1290.9	1282.7	1191.8	CH TP
26		1290.9	1282.7	1193.3	CH TP
27		1290.9	1282.7	1194.7	DDS LD
28		1290.9	1282.7	1196.7	SCP LD
29		1290.9	1282.7	1197.9	DDS LD
30		1290.9	1282.7	1199.8	DDS LD
31		1290.9	1282.7	1201.3	DDS LD

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
- 2.) Circle the Month that you are working on.
- 3.) Enter the Date and Record the Pump Readings on the form.
- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: _____

JO

Date: _____

08

**CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT**

**MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION**

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1		1290.9	1282.7	1205.6	NDS LD
2		1291.0	1282.7	1211.4	LM
3		1291.0	1282.7	1214.6	LM
4		1291.0	1282.7	1217.8	NDS LD
5		1291.0	1282.7	1219.6	LD
6		1291.2	1283.9	1220.9	LD
7		1291.2	1285.4	1220.9	LD
8		1291.2	1286.5	1220.9	LD
9		1291.2	1288.0	1220.0	CH WJ
10		1291.2	1289.5	1220.0	LD
11		1291.2	1291.2	1220.0	LD
12		1291.2	1292.6	1220.0	LD
13		1291.2	1294.8	1220.0	LD
14		1291.2	1291.2	1220.0	LD WR
15		1291.2	1298.8	1220.0	LD
16		1291.2	1299.9	1220.0	JW
17		1291.2	1301.4	1220.0	JW
18		1291.2	1302.9	1220.0	JW
19		1291.2	1304.9	1220.0	LD
20		1291.2	1305.1	1221.2	LD
21		1291.2	1305.1	1222.8	LD
22		1291.2	1305.1	1224.4	LD
23		1291.2	1305.1	1226.1	LD
24		1291.2	1305.1	1227.7	CH
25		1291.2	1305.1	1229.2	LD
26		1291.2	1305.1	1231.9	LD
27		1291.3	1305.1	1232.8	LD
28		1291.3	1305.1	1234.1	LD
29		1291.3	1305.1	1235.7	J
30					
31					

Instructions:

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Signature:

JD

Date:

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CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1		1291.3	1305.1	1237.1	LM
2		1291.3	1305.1	1238.6	LM
3		1291.3	1305.1	1240.1	LM
4		1291.3	1305.1	1241.5	LD
5		1291.3	1305.1	1244.3	LD
6		1291.3	1305.1	1246.4	LD
7		1291.3	1305.1	1248.2	LD
8		1291.3	1305.1	1251.7	LD
9		1291.3	1305.1	1251.5	FOX
10		1291.3	1305.1	1257.7	1257.0 FOX
11		1291.3	1305.2	1259.1	LD Hm
12		1291.4	1305.2	1261.5	LD
13		1291.4	1305.2	1263.6	LD
14		1291.4	1305.2	1265.4	JD
15		1291.4	1305.2	1267.2	JD
16		1291.4	1305.2	1269.3	CH
17		1291.4	1305.2	1271.6	CH
18		1291.4	1305.2	1273.6	JD
19		1291.4	1305.2	1275.6	LD
20		1291.4	1305.2	1277.5	LD
21		1291.4	1305.2	1279.1	LD
22		1291.4	1305.2	1280.8	LM
23		1291.4	1305.2	1284.2	TP
24		1291.4	1305.2	1286.8	LD
25		1291.4	1305.2	1287.3	LD
26		1291.4	1305.2	1288.9	JD
27		1291.5	1305.3	1290.4	JD
28		1291.5	1305.3	1291.9	JD
29		1291.5	1305.3	1293.3	LM
30		1291.5	1305.3	1293.3	LM
31		1291.5	1305.3	1294.2	LD

Instructions:

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- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature:

JD

Date:

08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR **APR** MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1		1291.5	1305.3	1297.7	JD
2		1291.5	1305.3	1298.3	JD
3		1291.5	1305.3	1300.3	JD
4		1291.5	1305.3	1301.0	JD
5		1291.5	1305.3	1305.5	NE
6		1291.5	1305.3	1305.0	WS
7		1291.5	1305.3	1312.9	JD
8		1291.6	1307.8	1312.9	JD
9		1291.6	1307.8	1315.6	"
10		1291.6	1307.8	1318.1	"
11		1291.6	1307.9	1320.3	"
12		1291.6	1307.9	1322.4	TP
13		1291.6	1307.9	1324.8	TP
14		1291.6	1307.9	1326.8	JD
15		1291.7	1307.9	1328.1	JD
16		1291.7	1307.9	1330.6	JD
17		1291.7	1308.0	1332.3	JD
18		1291.7	1308.0	1334.1	LO
19		1291.7	1307.9	1334.1	LM CH
20		1291.7	1307.9	1335.9	LM CH
21		1304.2	1314.0	1339.5	JD
22		1321.2	1314.9	1340.9	JD 1340.9
23		1334.2	1314.9	1340.9	JD 1340.9
24		1340.2	1315.0	1340.9	JD
25		1345.0	1315.0	1340.5	JD
26		1348.2	1315.0	1340.5	HAYES
27		1351.5	1315.0	1340.5	HAYES
28		1354.2	1315.0	1340.5	JD
29		1360.8	1315.0	1340.5	JD
30		1364.7	1315.0	1340.5	JD
31					

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- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: JD

Date: 08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1	PUMP #2	PUMP #3	NAME
		0005179	0005180	0005181	
1	5-1-08	1367.4	1315.0	1340.5	JD
2	5-2-08	1370.1	1315.0	1340.5	JD
3	5-3-08	1372.3	1315.0	1340.5	Lm CH KGBL
4	5-4-08	1374.5	1315.0	1340.5	SR Lm CH Dr
5	5-5-08	1377.2	1315.0	1340.6	JD LD
6	5-6-08	1378.7	1315.0	1340.6	JD
7	5-7-08	1380.8	1315.1	1340.6	JD
8	5-8-08	1382.5	1315.1	1340.6	JD
9	5-9-08	1382.8	1315.1	1340.6	JD
10	5-10-08	1391.4	1315.1	1340.6	MFP SB WR
11	5-11-08	1404.3	1319.4	1342.0	JD
12	5-12-08	1409.4	1319.4	1342.0	Lm WJ YMS
13	5-13-08	1416.3	1319.5	1342.5	Lm WJ
14	5-14-08	1419.2	1319.5	1342.5	Lm MS
15	5-15-08	1417.5	1319.5	1342.5	Lm MS WJ
16	5-16-08	1420.1	1319.5	1342.5	Lm MS WJ
17	5-17-08	1423.0	1319.5	1342.5	Lm MS WJ
18	5-18-08	1425.3	1319.5	1342.5	Lm MJ WJ
19	5-19-08	1427.6	1319.5	1342.5	MS WJ
20	5-20-08	1427.9	1321.6	1342.5	MS WJ
21	5-21-08	1430.0	1321.6	1342.5	MS WJ
22	5-22-08	1427.7	1321.7	1342.5	MJ WJ
23	5-23-08	1433.2	1321.7	1342.5	MS WJ
24	5-24-08	1434.4	1321.7	1342.5	JW CH WJ
25	5-25-08	1438.8	1321.7	1342.5	JW CH WJ
26	5-26-08	1437.8	1321.7	1342.5	JW CH WJ
27	5-27-08	1437.8	1321.7	1342.5	Lm WJ MS
28	5-28-08	1439.8	1321.7	1342.5	MS WJ
29	5-29-08	1439.6	1321.7	1342.6	MS WJ
30	5-30-08	1442.6	1321.7	1342.6	MS WJ
31					

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- 5.) Sign & Date this Form.
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Signature: 

Date: 6-2-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER #

YEAR > 2008

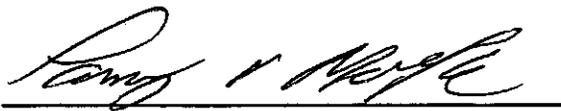
CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1	6-1-08	1445.2	1321.7	1342.6	S MC YLD Y TP
2	6-2-08	1446.3	1321.7	1342.7	MS Y WJ
3	6-3-08	1446.3	1321.7	1344.3	Lm Y MS
4	6-4-08	1446.3	1321.7	1347.4	Lm
5	6-5-08	1446.3	1321.7	1349.6	MS WJ
6	6-6-08	1446.3	1321.7	1351.4	MS WJ
7	6-7-08	1446.3	1321.7	1353.0	Lm KA RECD
8	6-8-08	1446.3	1321.7	1354.7	Lm KA RECD
9	6-9-08	1446.3	1321.7	1356.4	MS WJ
10	6-10-08	1446.3	1321.7	1358.1	MS WJ
11	6-11-08	1446.3	1321.7	1359.7	MS WJ
12	6-12-08	1446.3	1321.8	1361.4	MS WJ
13	6-13-08	1446.3	1321.8	1363.1	MS WJ
14	6-14-08	1446.3	1321.8	1364.7	WF CH MS
15	6-15-08	1446.3	1321.8	1366.2	WF CH MS
16	6-16-08	1446.3	1321.8	1367.8	Lm P MS
17	6-17-08	1446.3	1321.8	1369.6	MS WJ
18	6-18-08	1446.3	1321.8	1371.3	MS WJ
19	6-19-08	1446.3	1321.9	1372.9	Lm Y WJ
20	6-20-08	1446.3	1321.9	1374.2	MS WJ
21	6-21-08	1446.3	1321.9	1376.2	Lm KA CR
22	6-22-08	1446.3	1321.9	1377.3	Lm KA CR
23	6-23-08	1446.3	1321.9	1378.7	MS WJ
24	6-24-08	1446.3	1321.9	1380.2	MS WJ
25	6-25-08	1446.3	1321.9	1381.6	MS WJ
26	6-26-08	1446.3	1321.9	1383.4	MS WJ
27	6-27-08	1446.4	1321.9	1384.5	MS WJ
28	6-28-08	1446.4	1321.9	1386.1	SB JR TP
29	6-29-08	1446.4	1322.4	1386.6	SB JR TP
30	6-30-08	1446.4	1323.3	1388.6	MS WJ
31					

Instructions:

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Signature:



Date:

6-30-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1	7-1-08	1446.4	1324.3	1386.6	MS WJ
2	7-2-08	1446.4	1326.5	1386.6	MS WJ
3	7-3-08	1446.4	1327.6	1386.6	SR JR TD
4	7-4-08				
5	7-5-08	1446.4	1328.5	1386.6	JW CH SB
6	7-6-08	1446.4	1329.2	1386.7	JW CH SB
7	7-7-08	1446.4	1334.1	1386.9	MS WJ
8	7-8-08	1446.4	1335.7	1386.9	MS WJ
9	7-9-08	1446.4	1337.6	1386.9	MS WJ
10	7-10-08	1446.4	1338.6	1386.9	MS WJ
11	7-11-08	1446.4	1338.4	1387.9	MS WJ
12	7-12-08	1446.5	1340.8	1387.9	MS WJ KAP
13	7-13-08	1446.5	1342.0	1386.9	LM WJ KA
14	7-14-08	1446.5	1343.1	1388.9	MS WJ
15	7-15-08	1446.5	1344.4	1388.9	MS WJ
16	7-16-08	1446.5	1345.5	1388.9	MS WJ
17	7-17-08	1446.5	1346.5	1388.9	MS WJ
18	7-18-08	1446.5	1347.4	1388.9	MS WJ
19	7-19-08	1446.5	1348.5	1388.9	LD SMC TP
20	7-20-08	1446.5	1349.5	1388.9	LD SMC TP
21	7-21-08	1446.5	1350.3	1388.9	MS WJ
22	7-22-08	1446.5	1351.5	1388.9	MS WJ
23	7-23-08	1446.5	1352.3	1388.9	MS WJ
24	7-24-08	1446.5	1353.6	1388.9	MS WJ
25	7-25-08	1446.5	1354.6	1387.9	MS WJ
26	7-26-08	1446.5	1355.4	1387.9	LM RR & CB
27	7-27-08	1446.5	1356.1	1387.0	LM RR & CB
28	7-28-08	1446.5	1357.2	1387.0	LM WS HM
29	7-29-08	1446.5	1358.2	1387.0	MS WJ
30	7-30-08	1446.5	1359.4	1387.0	MS WJ
31	7-31-08	1446.5	1360.3	1387.9	MS WJ

Instructions:

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Signature: _____

[Handwritten Signature]

Date: _____

8-1-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER # P217331

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1	8-1-08	1446.5	1361.4	1387.9	Lm yms
2	8-2-08	1446.5	1362.5	1387.9	ms KA WF
3	8-3-08	1446.5	1363.6	1387.9	ms KA WF
4	8-4-08	1446.5	1364.7	1387.9	ms y WJ
5	8-5-08	1446.5	1365.6	1387.0	ms WJ
6	8-6-08	1446.5	1366.8	1387.0	ms WJ
7	8-7-08	1446.5	1367.0	1387.0	ms WJ
8	8-8-08	1446.5	1367.8	1387.9	ms WJ
9	8-9-08	1446.5	1369.8	1387.0	Lm CH AGGd
10	8-10-08	1446.5	1370.9	1387.9	Lm CH DR
11	8-11-08	1446.5	1371.8	1387.1	ms WJ
12	8-12-08	1446.5	1372.8	1387.0	ms WJ
13	8-13-08	1446.5	1373.8	1387.0	ms WJ
14	8-14-08	1446.5	1374.8	1387.0	Lm y WJ
15	8-15-08	1446.5	1375.8	1387.0	ms JD
16	8-16-08	1446.5	1376.8	1387.0	SR SMC TP
17	8-17-08	1446.5	1377.9	1387.0	SR SMC TP
18	8-18-08	1446.5	1378.8	1387.0	ms WJ
19	8-19-08	1446.5	1380.0	1387.0	ms WJ
20	8-20-08	1446.5	1381.1	1387.0	ms WJ
21	8-21-08	1446.5	1382.2	1387.0	ms WJ
22	8-22-08	1446.5	1383.6	1387.0	ms LM
23	8-23-08	1446.5	1384.4	1387.0	Lm CH LB
24	8-24-08	1446.5	1385.4	1387.0	Lm CH LB
25	8-25-08	1446.5	1386.6	1387.0	ms LM
26	8-26-08	1446.5	1388.1	1387.0	ms LM
27	8-27-08	1446.5	1388.9	1387.0	ms LM
28	8-28-08	1446.5	1390.5	1387.0	ms LM
29	8-29-08	1448.3	1400.4	1389.7	ms LM
30	8-30-08	1448.3	1401.8	1389.7	JW WR
31	8-31-08	1448.3	1403.1	1389.8	JN WR

Instructions:

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Signature: _____

[Handwritten Signature]

Date: _____

8-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG **SEPT** OCT NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1		1448.4	1404.2	1389.8	JW CR WR
2		1448.4	1405.1	1389.8	MS LM
3		1448.3	1406.1	1389.8	MS CR
4		1448.3	1407.5	1389.8	LM MS
5		1448.4	1408.8	1389.8	LM MS
6		1448.4	1410.2	1389.8	LM SMC LD
7		1451.5	1432.2	1396.2	LM SMC LD
8		1451.5	1432.2	1396.7	MS WJ
9		1451.5	1433.7	1398.7	MS MS
10		1451.5	1433.9	1400.4	MS JD
11		1451.5	1435.3	1400.4	MS MS LM
12		1451.5	1436.7	1400.4	MS MS LM
13		1451.5	1438.0	1400.4	LM CR CR
14		1451.5	1438.8	1400.4	LM CR CR
15		1451.5	1439.7	1400.9	MS MS
16		1451.5	1439.7	1402.3	MS MS
17		1451.5	1439.7	1403.6	MS MS
18		1451.5	1440.7	1403.7	MS MS
19		1451.5	1442.2	1403.7	WF WR WJ
20		1451.5	1443.3	1403.7	WF WR WJ
21		1451.5	1444.3	1403.7	WF WR WJ
22		1451.5	1445.4	1403.7	MS MS
23		1451.5	1446.7	1403.7	LD CR
24		1451.5	1446.7	1405.0	MS LD
25		1451.5	1446.7	1406.2	MS YLD
26		1451.5	1450.9	1406.4	MS LD
27		1451.6	1450.9	1406.4	MS WJ
28		1451.6			
29		1451.6	1455.3	1406.4	LM MS MS
30		1451.6	1456.8	1406.4	LM MS MS
31					

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
- 2.) Circle the Month that you are working on.
- 3.) Enter the Date and Record the Pump Readings on the form.
- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: 

Date: 9-30-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER # P 217491

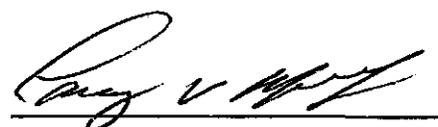
YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT (OCT) NOV DEC

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1		1451.6	1457.0	1407.8	Lm ms ms
2		1451.6	1458.4	1407.8	ms ms
3		1451.6	1459.6	1407.8	ms Lm wJ
4		1451.6	1460.7	1407.8	CH DA SR ms
5		1451.6	1461.9	1407.8	SR ms CH DA
6		1451.6	1463.1	1407.8	Lm wJ
7		1451.6	1464.2	1407.8	Lm wJ
8		1451.6	1465.5	1407.8	ms wJ
9		1451.6	1466.6	1407.8	ms wJ
10		1451.6	1467.7	1407.8	Lm
11		1452.4	1467.8	1407.8	Lm KA CB
12		1453.3	1467.8	1407.8	Lm KA CB
13		1454.4	1467.8	1407.8	Lm wJ
14		1455.4	1467.8	1407.8	Lm ms wJ
15		1456.3	1467.8	1408.0	Lm ms wJ
16		1457.3	1467.8	1408.1	Lm ms wJ
17		1458.3	1467.8	1408.1	Lm ms wJ
18		1458.3	1469.2	1408.1	JW wJ SMC
19		1458.4	1470.5	1408.1	JW wJ SMC
20		1458.4	1471.7	1408.1	Lm wJ ms
21		1458.4	1472.9	1408.1	Lm wJ ms
22		1458.4	1474.2	1408.1	Lm wJ ms
23		1458.4	1475.1	1408.1	ms Lm wJ
24		1458.4	1476.3	1408.1	Lm wJ ms
25		1458.4	1476.9	1408.1	CH TP LD
26		1458.4	1478.2	1408.1	LD CH TP
27		1458.4	1478.2	1408.1	AD CH TP
28		1458.4	1481.1	1408.1	ms Lm
29		1458.4	1482.4	1408.1	ms Lm
30		1458.4	1483.7	1408.1	ms Lm
31		1458.4	1484.5	1408.2	ms Lm

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- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: 

Date: 10-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER # P 217 58 /

YEAR > 2008

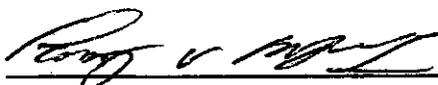
CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT (NOV) DEC

DOM	DATE	PUMP #1	PUMP #2	PUMP #3	NAME
		0005179	0005180	0005181	
1	11-1-08	1458.4	1485.7	1488.2	Lm KA CB
2	11-2-08	1458.4	1486.7	1408.2	Lm KA CB
3	11-3-08	1458.4	1488.0	1408.2	Lm MS WJ
4	11-4-08	1458.4	1489.1	1408.2	Lm MS WJ
5	11-5-08	1458.4	1490.2	1408.2	Lm MS WJ
6	11-6-08	1458.5	1490.4	1409.4	ms Lm WJ
7	11-7-08	1458.5	1490.4	1410.4	WF MS WR
8	11-8-08	1458.5	1490.4	1412.0	WF MS WR
9	11-9-08	1458.5	1490.4	1413.3	ms WJ
10	11-10-08	1458.5	1490.4	1413.3	ms WJ
11	11-11-08	1458.5	1490.4	1415.8	Lm ms WJ
12	11-12-08	1458.5	1490.4	1417.2	Lm ms WJ
13	11-13-08	1458.5	1490.4	1418.4	ms WJ
14	11-14-08	1458.5	1490.4	1419.9	ms Lm WJ
15	11-15-08	1458.5	1490.5	1424.7	Lm CH DR
16	11-16-08	1458.5	1490.5	1426.3	Lm CH DR
17	11-17-08	1458.5	1490.5	1430.3	ms WJ
18	11-18-08	1458.5	1490.5	1431.9	Lm ms WJ
19	11-19-08	1458.5	1490.5	1431.9	Lm ms WJ
20	11-20-08	1458.5	1490.5	1433.4	Lm WJ
21	11-21-08	1458.5	1490.5	1436.5	Lm ms WJ
22	11-22-08	1458.5	1490.6	1437.8	ms PA SR CB
23	11-23-08	1458.5	1490.6	1439.2	ms PA SR CB
24	11-24-08	1458.5	1490.6	1440.5	ms Lm
25	11-25-08	1458.5	1490.6	1442.2	Lm
26	11-26-08	1458.5	1490.6	1443.8	Lm ms
27	11-27-08	1458.5	1490.6	1445.3	ms PA SR CB
28	11-28-08	1458.6	1490.6	1446.6	ms PA SR CB
29	11-29-08	1458.6	1490.6	1447.9	Lm WR CB AR
30	11-30-08	1458.6	1490.6	1449.3	Lm WR CR AR
31					

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- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: _____



Date: _____

12-1-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
UPHAMBROOK PUMP STATION

WORK ORDER # P217637

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV **(DEC)**

DOM	DATE	PUMP #1 0005179	PUMP #2 0005180	PUMP #3 0005181	NAME
1	12-1-08	1458.5	1490.6	1452.0	Lm MS WT
2	12-2-08	1458.5	1490.6	1453.9	MS WJ
3	12-3-08	1458.5	1490.6	1455.5	Lm MS WJ
4	12-4-08	1458.5	1490.6	1457.2	Lm MS WT
5	12-5-08	1458.5	1490.6	1458.7	Lm MS WJ
6	12-6-08	1458.5	1490.6	1460.1	SB WJ SM AN
7	12-7-08	1458.5	1490.6	1461.6	SB WJ SM AN
8	12-8-08	1458.6	1490.6	1462.9	MS WJ
9	12-9-08	1458.6	1490.6	1464.2	MS WJ
10	12-10-08	1458.6	1490.6	1465.7	MS WJ
11	12-11-08	1458.6	1490.6	1467.9	MS WJ
12	12-12-08	1466.4	1491.5	1475.4	MS WJ
13	12-13-08	1469.9	1491.5	1475.4	TP LD CH
14	12-14-08	1475.3	1491.7	1475.4	TP LD CH
15	12-15-08	1477.7	1491.8	1475.4	LD WJ
16	12-16-08	1480.0	1491.9	1475.4	MS WJ
17	12-17-08	1483.0	1491.9	1475.5	MS WJ
18	12-18-08	1485.7	1492.0	1475.5	MS WJ
19	12-19-08	1494.2	1492.1	1475.7	MS MS
20	12-20-08	1494.3	1494.1	1475.9	Lm KACB
21	12-21-08	1494.3	1496.4	1475.9	Lm KACB
22	12-22-08	1494.3	1499.3	1475.9	Lm MC
23	12-23-08	1494.3	1501.7	1475.9	MS LM
24	12-24-08	1494.4	1503.6	1476.1	Lm MS
25	12-25-08	1494.5	1505.7	1476.1	Lm KACB
26	12-26-08	1494.5	1507.5	1476.1	Lm KACB
27	12-27-08	1494.5	1509.3	1476.1	WF WR MS
28	12-28-08	1494.5	1511.1	1476.1	WF WR MS
29	12-29-08	1494.5	1512.7	1476.1	MS LM
30	12-30-08	1494.5	1514.5	1476.1	MS LM
31	12-31-08	1494.5	1516.3	1476.1	Lm MS

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- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: *Perry V. [Signature]*

Date: 12-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	NAME
1	1099.03	5352.5	3841.0	JW	
2	1104.01	5352.5	3841.0	LM JW WST	
3	1106.20	5352.7	3841.1	LM JW WST	
4	1106.33	5362.1	3841.1	LM JW WST	
5	1111.87	5362.1	3841.1	LM	
6	1118.01	5362.1	3841.1	LM	
7	1124.35	5362.1	3841.1	DDS	
8	1131.10	5362.1	3841.1	DDS	
9	1136.80	5362.1	3841.1	DDS	
10	1136.80	5362.1	3841.1	DDS	
11	1150.19	5362.1	3841.1	DDS	
12	1150.25	5362.1	3841.1	FOX WST	
13	1166.19	5362.1	3841.1	FOX WST	
14	1167.62	5362.1	3841.1	JW LD	
15	1173.00	5362.1	3841.1	JW LD	
16	1179.08	5362.1	3841.1	JW LD	
17	1184.51	5362.2	3841.1	JW LD	
18	1195.61	5363.1	3841.1	JW LD	
19	120.19	5362.1	3841.1	LM CH	
20	1207.66	5363.1	3841.1	LM CH	
21	1213.40	5363.1	3841.1	LM CH	
22	1217.53	5365.0	3841.1	JW LD	
23	1223.63	5365.0	3841.1	JW LD	
24	1229.67	5365.0	3841.1	JW LD	
25	1235.59	5365.0	3841.1	JW LD	
26	1240.92	5365.0	3841.1	CH TP	
27	1244.61	5365.0	3841.1	TP CH	
28	1254.42	5365.0	3841.1	DDS LD	
29	1259.39	5365.0	3841.1	JW LD	
30	1268.08	5365.0	3841.1	DDS LD	
31	1271.03	5365.0	3841.1	DDS LD	

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Signature: _____ JD

Date: _____ 05

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	NAME
1	1410.37	5398.2	5398.2	3885.2	LM
2	1410.37	5398.2	5398.2	3889.9	LM
3	1410.37	5398.2	5398.2	3894.7	LD
4	1410.37	5398.2	5398.2	3899.9	LD
5	1410.37	5398.2	5398.2	3907.8	LD
6	1410.37	5398.2	5398.2	3911.9	LD
7	1410.37	5398.2	5398.2	3932.2	LD
8	1410.37	5398.2	5398.2	3942.2	LD
9	1410.50	5398.2	5398.2	3946.7	LD
10	1411.23	5398.4	5398.4	3957.5	LD HM
11	1411.23	5398.4	5398.4	3962.6	LD
12	1411.23	5398.4	5398.4	3969.5	LD
13	1411.23	5398.4	5398.4	3988.9	LD
14	1411.23	5398.4	5398.4	3994.0	LD
15	1411.23	5398.4	5398.4	3998.5	LM CH
16	1411.23	5398.4	5398.4	4008.7	LM CH
17	1411.23	5398.4	5398.4	4014.0	LD
18	1411.23	5398.4	5398.4	4019.2	LD
19	1411.23	5398.4	5398.4	4024.2	LD
20	1411.23	5398.4	5398.4	4031.5	LD
21	1411.23	5398.4	5398.4	4036.8	LM CH
22	1411.23	5398.4	5398.4	4043.4	TP
23	1411.23	5398.4	5398.4	4050.2	TP
24	1411.23	5398.4	5398.4	4057.9	LD
25	1411.23	5398.4	5398.4	4064.9	LD
26	1411.23	5398.4	5398.4	4071.1	LD
27	1411.23	5398.4	5398.4	4077.6	LD
28	1411.23	5398.4	5398.4	4085.3	LD
29	1411.23	5398.4	5398.4	4091.0	LM CH
30	1411.23	5398.4	5398.4	4097.5	LM CH
31	1411.23	5398.4	5398.4	4105.0	LD

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Signature: _____

JD

Date: _____

08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR **APR** MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	NAME
1	1411.23	5398.4	5398.4	4113.2	SD
2	1411.23	5398.4	5398.4	4121.4	SD
3	1411.23	5398.4	5398.4	4130.0	SD
4	1411.23	5398.4	5398.4	4142.0	SD
5	1411.23	5398.4	5398.4	4147.2	SD
6	1411.23	5398.4	5398.4	4156.6	SD
7	1411.23	5398.4	5398.4	4164.1	SD
8	1411.23	5398.4	5398.4	4168.4	SD
9	1411.23	5398.4	5398.4	4173.1	SD
10	1411.23	5398.4	5398.4	4195.6	SD
11	1411.23	5398.4	5398.4	4219.6	SD
12	1411.23	5398.4	5398.4	4228.7	SD
13	1411.23	5398.4	5398.4	4243.1	SD
14	1411.23	5398.4	5398.4	4253.4	SD
15	1411.23	5398.4	5398.4	4260.7	SD
16	1411.23	5398.4	5398.4	4269.0	SD
17	1411.23	5398.4	5398.4	4277.0	SD
18	1411.23	5398.4	5398.4	4285.9	SD
19	1411.23	5398.4	5398.4	4292.4	LM CH
20	1411.23	5398.4	5398.4	4300.4	LM CH
21	1411.23	5398.4	5398.4	4328.1	SD
22	1425.0	5420.9	5420.9	4328.2	SD
23	1425.0	5422.2	5422.2	4329.7	SD
24	1425.0	5465.0	5465.0	4329.7	SD
25	1425.00	5458.2	5458.2	4329.7	SD
26	1425.00	5500.1	5500.1	4329.7	HA 93
27	1425.00	5512.9	5512.9	4329.7	HA 93
28	1425.00	5515.7	5515.7	4329.7	SD
29	1425.00	5543.4	5543.4	4330.2	SD
30	1425.00	5553.5	5553.5	4330.2	SD
31					

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- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: SD

Date: 08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1	PUMP #2	PUMP #3	Reading flow		NAME
		0005210	0005213	0005214	"	"	
1	5-1-08	1425.00	5562.8	4330.2	22604	800000	JD
2	5-2-08	1425.00	5584.0	4330.2	22949	845000	JD
3	5-3-08	1425.00	5592.2	4330.2	23022	730000	Lm YCN YREGD
4	5-4-08	1425.00	5605.3	4330.2	23128	1060000	SB Lm CH DR
5	5-5-08	1425.00	5618.8	4330.2	23243	1050000	JD LD
6	5-6-08	1425.00	5631.0	4330.2	23344	1010000	JD
7	5-7-08	1425.00	5644.1	4330.2	23447	1030000	JD
8	5-8-08	1425.00	5654.8	4330.2	23544	970000	JD
9	5-9-08	1425.00	5659.2	4330.2	23566	120000	JD
10	5-10-08	1425.00	5692.6	4331.4	24165	5099000	MS WR SB
11	5-11-08	1425.00	5714.1	4331.4	24544	3790000	MS WR SB
12	5-12-08	1425.00	5731.6	4332.0	24750	2060000	JD
13	5-13-08	1425.00	5746.1	4332.0	24878	1280000	Lm WJ MS
14	5-14-08	1425.00	5761.9	4332.0	25103	3250000	Lm WJ
15	5-15-08	1425.00	5786.0	4332.0	25539	4860000	Lm MS
16	5-16-08	1425.00	5810.5	4332.0	25942	4030000	Lm WJ MC
17	5-17-08	1425.00	5821.9	4332.0	26049	1070000	Lm SB CB
18	5-18-08	1425.00	5833.3	4332.0	26164	1150000	Lm SM CB
19	5-19-08	1425.00	5845.3	4332.0	26283	1190000	Lm WJ MS
20	5-20-08	1425.00	5857.5	4332.0	26409	1260000	MS WJ
21	5-21-08	1425.00	5857.5	4332.0	26529	1200000	MS WJ
22	5-22-08	1425.00	5878.5	4332.0	26598	690000	MS WJ
23	5-23-08	1425.00	5885.8	4332.0	26660	620000	MS WJ
24	5-24-08	1425.00	5899.2	4332.0	26824	1640000	SW WJ CH
25	5-25-08	1425.00	5911.1	4332.0	26928	1010000	SW WJ CH
26	5-26-08	1426.34	5920.5	0/S	27033	1080000	SW WJ CH
27	5-27-08	1426.50	5926.6	0/S	27088	550000	MS WJ
28	5-28-08	1426.80	5933.9	0/S	27159	710000	MS WJ
29	5-29-08	1426.50	5933.9	4333.0	27213	540000	MS WJ
30	5-30-08	1426.50	5939.4	4345.7	27425	2120000	MS WJ
31	5-31-08	1426.50	5939.4	4357.3	27497	720000	SME LD TP

Instructions:

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- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature:

[Handwritten Signature]

Date:

6-2-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER #

YEAR > 2008

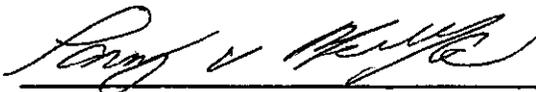
CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1	PUMP #2	PUMP #3	Reading	NAME	FLOW
		0005210	0005213	0005214			
1	6-1-08	1426.50	5939.4	4358.7	27590	SME LA TP	930000
2	6-2-08	1426.50	5939.4	4365.0	27654	MS WJ	940000
3	6-3-08	1426.50	5939.4	4370.0	27736	MS LH	520000
4	6-4-08	1426.50	5939.4	4388.5	28118	LM	3820000
5	6-5-08	1426.50	5939.4	4399.0	28270	MS WJ	1520000
6	6-6-08	1426.55	5939.5	4407.4	28372	MS LH JW	1020000
7	6-7-08	1426.55	5939.5	4414.4	28463	LM KA REED	910000
8	6-8-08	1426.55	5939.5	4422.3	28564	LM KA REED	1010000
9	6-9-08	1426.55	5939.5	4431.1	28674	LM MS WJ	1100000
10	6-10-08	1426.55	5939.5	4438.8	28769	MS WJ	950000
11	6-11-08	1426.55	5939.5	4447.2	28872	MS WJ	1030000
12	6-12-08	1426.55	5939.5	4455.4	28971	MS WJ	990000
13	6-13-08	1426.55	5939.5	4464.1	29075	MS WJ	1040000
14	6-14-08	1426.55	5939.5	4473.0	29195	WFCH MS	120000
15	6-15-08	1426.55	5939.5	4481.6	29291	WFCH MS	960000
16	6-16-08	1426.55	5939.5	4490.2	29394	LM MS	1030000
17	6-17-08	1426.55	5939.5	4499.5	29523	MS LM WJ	1290000
18	6-18-08	1426.55	5941.0	4505.8	29610	MS WJ	870000
19	6-19-08	1426.55	5941.0	4510.1	29661	LM WJ	510000
20	6-20-08	1426.55	5941.0	4518.1	29805	MS WJ	1440000
21	6-21-08	1426.55	5941.0	4523.0	29860	LM KA CA	550000
22	6-22-08	1426.55	5941.0	4526.2	29898	LM KA ER	380000
23	6-23-08	1426.55	5941.1	4540.6	30189	MS WJ	2910000
24	6-24-08	1426.55	5941.1	4549.4	30296	MS WJ	1070000
25	6-25-08	1426.55	5941.1	4557.5	30394	MS WJ	980000
26	6-26-08	1426.55	5941.1	4566.0	30497	MS WJ	1030000
27	6-27-08	1426.65	5941.1	4574.1	30593	MS WJ	960000
28	6-28-08	1426.65	5942.8	4582.0	30707	SB TR TP	1140000
29	6-29-08	1426.65	5942.8	4590.6	30809	SB TR TP	1020000
30	6-30-08	1426.65	5942.8	4599.0	30914	MS WJ	1050000
31							

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Signature:



Date:

6-30-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE **JULY** AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1	PUMP #2	PUMP #3	READING	NAME	flow
		0005210	0005213	0005214			
1	7-1-08	1426.65	5942.8	4602.5	30957	MS WJ	430000
2	7-2-08	1426.65	5948.7	4607.9	31134	MS WJ	1770000
3	7-3-08	1426.65	5964.8	4609.2	31303	MS WJ	1690000
4	7-4-08	1426.65	5964.8	4616.8	31411	SR JR TP	1080000
5	7-5-08	1426.65	5964.8	4625.5	31515	JW CH SB	1040000
6	7-6-08	1426.65	5964.9	4634.9	31652	JW CH SB	1370000
7	7-7-08	1426.65	5964.9	4642.3	31764	MS WJ	1120000
8	7-8-08	1426.81	5965.1	4651.9	31953	MS WJ	1890000
9	7-9-08	1426.81	5965.1	4664.0	32169	MS WJ	2160000
10	7-10-08	1426.81	5965.1	4685.2	32636	MS WJ	4670000
11	7-11-08	1426.81	5965.1	4693.5	32738	MS WJ	1020000
12	7-12-08	1426.81	5965.1	4700.7	32827	KA WT LM	890000
13	7-13-08	1426.81	5965.1	4707.6	32910	LM KA WJ	830000
14	7-14-08	1426.81	5965.1	4715.3	33004	MS WJ	940000
15	7-15-08	1426.81	5965.1	4723.0	33134	MS WJ	1300000
16	7-16-08	1426.81	5965.1	4731.3	33242	MS WJ	1800000
17	7-17-08	1426.81	5965.1	4739.6	33344	MS WJ	1020000
18	7-18-08	1426.81	5965.1	4746.4	33427	MS WJ	830000
19	7-19-08	1426.81	5965.1	4753.8	33517	LD SAC TP	900000
20	7-20-08	1426.81	5965.1	4760.0	33593	LD SAC TP	760000
21	7-21-08	1426.81	5965.1	4766.4	33670	MS WJ	770000
22	7-22-08	1426.81	5965.1	4773.3	33756	MS WJ	860000
23	7-23-08	1426.81	5965.1	4781.1	33851	MS WJ	950000
24	7-24-08	1426.81	5965.1	4786.1	33914	MS WJ	630000
25	7-25-08	1426.81	5965.1	4793.0	34022	MS WJ	1080000
26	7-26-08	1426.81	5965.2	4799.2	34114	LM RR CB	926000
27	7-27-08	1426.81	5965.2	4802.6	34156	LM RR CB	460000
28	7-28-08	1427.85	5965.6	4810.9	34306	LM WJ HM	1500000
29	7-29-08	1427.85	5965.6	4814.2	34347	MS WJ	410000
30	7-30-08	1427.85	5965.6	4835.7	34751	MS WJ	4040000
31	7-31-08	1427.85	5965.6	4842.2	34833	MS WJ	820000

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Signature: _____



Date: _____

8-1-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER # P217331

YEAR > 2008

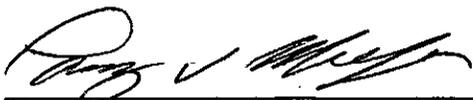
CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY (AUG) SEPT OCT NOV DEC

DOM	DATE	PUMP #1	PUMP #2	PUMP #3	Reading	NAME	Flow
		0005210	0005213	0005214			
1	8-1-08	1427.85	5965.6	4849.7	34927	ms Lm	94000
2	8-2-08	1427.85	5965.6	4855.9	35004	ms KA WF	770000
3	8-3-08	1427.85	5965.6	4860.6	35060	ms KA WF	560000
4	8-4-08	1427.85	5965.6	4865.2	35116	ms WJ	560000
5	8-5-08	1427.85	5965.7	4869.7	35172	ms WJ	560000
6	8-6-08	1427.85	5965.7	4874.1	35226	ms WJ	540000
7	8-7-08	1427.85	5965.7	4879.1	35286	ms WJ	60000
8	8-8-08	1427.85	5965.7	4884.9	35357	ms WJ	710000
9	8-9-08	1427.85	5965.7	4889.1	35407	Lm CH Reed	500000
10	8-10-08	1427.85	5965.7	4894.1	35467	Lm CH Reed	600000
11	8-11-08	1427.85	5965.7	4900.5	35525	ms WJ	780000
12	8-12-08	1427.85	5965.7	4907.2	35628	ms WJ	830000
13	8-13-08	1427.85	5965.7	4914.5	35717	ms WJ	890000
14	8-14-08	1427.85	5965.7	4921.0	35797	Lm WJ	800000
15	8-15-08	1427.85	5965.7	4928.1	35883	ms WJ	860000
16	8-16-08	1427.85	5965.7	4935.3	35971	SB SML TP	880000
17	8-17-08	1427.85	5965.7	4941.5	36045	SB SML TP	740000
18	8-18-08	1427.85	5965.7	4948.4	36129	ms WJ	840000
19	8-19-08	1427.85	5965.7	4956.1	36222	ms WJ	930000
20	8-20-08	1427.85	5965.7	4962.6	36303	ms WJ	810000
21	8-21-08	1427.85	5965.7	4971.6	36412	ms Lm	1090000
22	8-22-08	1427.85	5965.7	4978.2	36491	ms Lm	790000
23	8-23-08	1427.85	5965.7	4983.3	36552	Lm CH CB	610000
24	8-24-08	1427.85	5965.7	4989.4	36626	Lm CH CB	740000
25	8-25-08	1427.85	5965.7	4998.0	36705	ms Lm	790000
26	8-26-08	1427.85	5965.7	5004.4	36807	ms Lm	1020000
27	8-27-08	1427.85	5965.7	5010.3	36879	ms Lm	720000
28	8-28-08	1427.85	5965.8	5011.4	37044	Lm + MC	1650000
29	8-29-08	1428.03	5968.3	5035.5	37302	Lm + MC	2580000
30	8-30-08	1428.03	5968.3	5056.0	37692	FW CB WR	3900000
31	8-31-08	1428.03	5968.3	5079.8	38150	FW CB WR	4580000

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Signature:



Date:

8-31-08

**CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT**

**MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION**

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	READING	NAME	FLOW
1	1428.03	5968.3	5088.8	38281	JW CR WR	1310000	
2	1428.03	5968.3	5095.3	38364	MS LM	830000	
3	1428.03	5968.3	5102.2	38440	MS CB	760000	
4	1428.03	5968.3	5110.6	38540	MS LM	1000000	
5	1428.02	5968.3	5117.8	38616	MS LM	760000	
6	1428.02	5968.4	5125.4	38736	LM SMC LD	1200000	
7	1428.02	5972.7	5137.0	38961	LM SMC LD	2220000	
8	1428.02	5972.7	5159.2	39403	MS WT	4420000	
9	1428.02	5972.7	5180.9	39831	MS MS	4280000	
10	1428.02	5972.7	5188.7	39931	MS JB LM	1000000	
11	1428.03	5972.7	5195.9	40018	MS MS LM	1870000	
12	1428.39	5972.7	5200.8	40081	MS LM MS	630000	
13	1428.39	5972.7	5206.1	40144	LM CH CB	630000	
14	1428.39	5972.7	5210.8	40200	LM CH CB	560000	
15	1428.39	5972.7	5216.0	40262	LM MS MS	620000	
16	1428.39	5974.0	5222.2	40350	LM MS MS	880000	
17	1428.39	5974.0	5229.7	40441	MS MS	910000	
18	1428.39	5974.0	5237.2	40532	MS MS	910000	
19	1428.39	5974.0	5245.4	40630	MS WT	980000	
20	1428.39	5974.0	5251.3	40701	WF WR WT	710000	
21	1428.39	5974.0	5258.3	40782	WF WR WT	810000	
22	1428.39	5974.0	5265.5	40868	MS MS	860000	
23	1428.39	5974.0	5273.0	40958	LD CB	900000	
24	1428.39	5974.0	5280.9	41052	LD MS	940000	
25	1428.39	5974.0	5288.4	41141	LD MS	890000	
26	1428.39	5974.0	5305.8	41434	MS WT	2930000	
27	1428.39	5974.0	5326.1	41846	SM DR TP	4120000	
28	1428.39	5974.0	5350.1	42329	SM DR TP	4830000	
29	1428.39	5974.0	5355.0	42387	LM MS MS	580000	
30	1428.39	5974.0	5359.6	42443	LM MS MS	560000	
31							

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Signature: _____

[Handwritten Signature]

Date: _____

9-30-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER # P 217491

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	READING	NAME	FLOW
1		14283.9	5974.0	5372.9	42681	LM MS MS	239,000
2		14283.9	5974.0	5381.0	42781	MS MS	160,000
3		14283.9	5974.0	5388.4	42866	MS WJ LM	85,000
4		1428.39	5974.0	5395.5	42948	MS SRH SA	820,000
5		1428.39	5974.0	5402.7	43031	SRH SA	830,000
6		1428.39	5974.0	5410.1	43117	LM WJ	86,000
7		1428.39	5974.0	5417.4	43203	LM WJ	86,000
8		1428.39	5974.0	5425.2	43294	LM WJ MS	910,000
9		1428.39	5974.0	5433.1	43386	MS LM WJ	920,000
10		1428.48	5974.2	5439.1	43462	LM	76,000
11		1428.48	5974.2	5445.9	43555	LM KA CB	93,000
12		1428.48	5974.2	5452.7	43636	LM KA CB	81,000
13		1428.48	5974.2	5459.8	43720	LM WJ	84,000
14		1428.48	5974.2	5467.4	43810	MS WJ LM	900,000
15		1428.48	5974.2	5475.7	43909	MS LM WJ	99,000
16		1428.48	5974.2	5483.8	44005	MS LM WJ	96,000
17		1428.48	5974.2	5492.9	44126	JW WJ SMC	121,000
18		1428.48	5974.2	5501.6	44244	JW WJ SMC	118,000
19		1428.48	5974.2	5503.3	44389	MS LM WJ	45,000
20		1428.48	5974.2	5509.5	44340	MS LM WJ	51,000
21		1428.48	5974.2	5522.2	44585	LM MS WJ	245,000
22		1428.48	5974.2	5527.1	44856	LM MS WJ	271,000
23		1428.48	5974.4	5536.0	44783	MS LM WJ	1,27,000
24		1428.48	5974.9	5543.3	44876	LM MS WJ	93,000
25		1428.48	5974.9	5550.4	44962	WJ CH TP	860,000
26		1428.48	5974.9	5559.1	45065	WJ CH TP	103,000
27		1428.48	5974.9	5567.1	45160	MS LM	95,000
28		1428.48	5974.9	5576.6	45272	LM MS	112,000
29		1428.48	5974.9	5585.0	45371	MS LM	99,000
30		1428.48	5974.9	5585.0	45472	MS LM	101,000
31		1429.16	5974.9	5592.7	45572	MS LM	98,000

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Signature: _____

[Handwritten Signature]

Date: _____

10-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER # P217 581

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT **NOV** DEC

DOM	DATE	PUMP #1	PUMP #2	PUMP #3	READING	NAME	FLOW
		0005210	0005213	0005214			
1	11-1-08	1429.16	5974.9	5609.2	45663	910,000	Lm KA CB
2	11-2-08	1429.16	5974.9	5617.1	45755	920,000	Lm KA CB
3	11-3-08	1429.16	5974.9	5625.7	45853	980,000	ms Lm WT
4	11-4-08	1429.16	5974.9	5633.9	45949	960,000	Lm ms WT
5	11-5-08	1429.16	5974.9	5644.5	46075	126,0000	ms Lm WT
6	11-6-08	1429.16	5974.9	5652.8	46171	960,000	Lm ms WT
7	11-7-08	1429.16	5974.9	5661.3	46271	100,0000	ms Lm WT
8	11-8-08	1429.16	5974.9	5668.8	46357	860,000	WF ms WR
9	11-9-08	1429.16	5974.9	5676.7	46447	900,000	WF ms WR
10	11-10-08	1429.16	5974.9	5684.7	46538	910,000	ms WT
11	11-11-08	1429.16	5974.9	5692.0	46622	940,000	ms Lm WT
12	11-12-08	1429.16	5974.9	5699.7	46710	920,000	ms Lm WT
13	11-13-08	1429.16	5974.9	5707.2	46794	840,000	ms WT
14	11-14-08	1429.16	5974.9	5717.4	46913	1190,000	ms WT Lm
15	11-15-08	1429.16	5975.0	5729.1	47088	175,0000	Lm CH DR
16	11-16-08	1429.16	5975.0	5735.4	47166	720,000	Lm CH DR
17	11-17-08	1429.16	5975.0	5740.5	47227	610,000	Lm ms WS
18	11-18-08	1429.16	5975.0	5745.1	47282	550,000	Lm ms WT
19	11-19-08	1429.16	5975.0	5749.5	47335	530,000	Lm WT
20	11-20-08	1429.16	5975.0	5775.2	47846	5110,000	Lm WT MS
21	11-21-08	1429.23	5975.2	5790.2	48188	2920,000	Lm ms WT
22	11-22-08	1429.23	5975.2	5797.7	48230	920,000	ms KA SB CB
23	11-23-08	1429.23	5975.2	5805.0	48317	870,000	ms KA SB CB
24	11-24-08	1429.23	5975.2	5814.5	48427	110,0000	Lm ms
25	11-25-08	1429.23	5975.2	5823.6	48537	110,0000	Lm
26	11-26-08	1429.23	5975.2	5831.3	48626	990,000	Lm ms
27	11-27-08	1429.23	5975.2	5838.0	48710	840,000	ms KA SB CB
28	11-28-08	1429.23	5975.2	5846.0	48795	850,000	ms KA SB CB
29	11-29-08	1429.23	5975.2	5853.7	48882	870,000	Lm CB WR AR
30	11-30-08	1429.23	5975.2	5863.5	49001	119,0000	Lm CB WR AR
31							

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
- 2.) Circle the Month that you are working on.
- 3.) Enter the Date and Record the Pump Readings on the form.
- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: _____

[Handwritten Signature]

Date: _____

12-1-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
DOUGLASDALE PUMP STATION

WORK ORDER # 7217637

YEAR > 2008

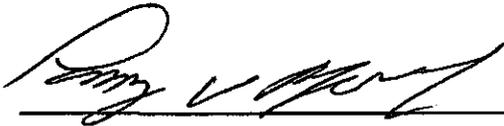
CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

COM	DATE	PUMP #1 0005210	PUMP #2 0005213	PUMP #3 0005214	NAME	READING	FLOW
1	12-1-08	1429.23	5975.2	5878.5	Lm ms WJ	49200	201000
2	12-2-08	1429.23	5975.2	5886.1	ms WJ	49288	88000
3	12-3-08	1429.23	5975.2	5892.3	Lm WJ ms	49372	84000
4	12-4-08	1429.32	5975.3	5898.2	Lm WJ ms	49432	60000
5	12-5-08	1429.37	5975.3	5905.1	Lm WT mC	49513	81000
6	12-6-08	1429.37	5975.3	5912.0	SB WJ SM AR	49543	80000
7	12-7-08	1429.37	5975.3	5919.2	SB WJ SM AR	49686	93000
8	12-8-08	1429.37	5975.3	5927.6	ms WJ	49777	91000
9	12-9-08	1429.37	5975.3	5935.4	ms WJ	49867	90000
10	12-10-08	1429.37	5975.3	5943.2	ms WJ	49958	91000
11	12-11-08	1429.37	5975.3	5957.4	ms WJ	50152	194000
12	12-12-08	1429.67	5975.3	5979.3	ms WJ	50529	377000
13	12-13-08	1429.67	5975.3	5994.3	LA CH TP	50820	291000
14	12-14-08	1429.67	5975.3	6017.5	LA CH TP	51307	487000
15	12-15-08	1431.82	5975.3	6038.3	WJ LB	51520	213000
16	12-16-08	1431.82	5975.3	6038.3	ms WJ	51656	136000
17	12-17-08	1431.82	5975.4	6045.4	WJ ml	51746	90000
18	12-18-08	1431.82	5975.4	6051.8	ms WJ	51821	75000
19	12-19-08	1431.82	5975.4	6057.8	ml ms	51891	70000
20	12-20-08	1431.82	5975.4	6073.8	Lm KA CB	52207	316000
21	12-21-08	1431.82	5975.4	6081.0	Lm KA CB	52294	87000
22	12-22-08	1431.82	5975.4	6088.9	ms Lm	52392	98000
23	12-23-08	1431.82	5975.4	6100.0	Lm ms	52578	186000
24	12-24-08	1431.84	5976.0	6107.4	Lm ms	52656	78000
25	12-25-08	1431.86	5976.6	6114.5	Lm KA CB	52743	87000
26	12-26-08	1431.86	5976.6	6119.8	Lm KA CB	52804	61000
27	12-27-08	1431.86	5976.6	6128.1	WF WR ms	52931	127000
28	12-28-08	1431.86	5976.6	6133.3	WF WR ms	52991	60000
29	12-29-08	1431.86	5976.6	6142.3	Lm ms	53128	137000
30	12-30-08	1431.86	5976.6	6151.8	Lm ms	53247	119000
31	12-31-08	1431.86	5976.6	6159.4	Lm ms	53336	89000

Instructions:

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- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: _____



Date: _____

12-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	NAME
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23	12/23/08	12296.7	13082.2		LM
24		12297.7	13082.5		LM
25		12297.2	13082.8		LM
26		12297.5	13083.2		LM
27		12297.8	13083.4		LM
28		12298.2	13083.8		LM
29		12298.5	13084.3		LM
30		12298.9	13084.6		LM
31		12299.2	13084.9		LM

Handwritten notes:
 - Diagonal line across the table with "None" written in the center.
 - "2 pumps down" written vertically on the right side of the table.
 - "NO READINGS FROM 1ST - 22ND" written above the table.

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
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- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

STATION DOWN

Signature: _____

JD

Date: _____

GP

**CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT**

**MONTHLY PUMP READINGS
HAMPTON PUMP STATION**

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	NAME
1		12299.5	13085.3		LM LM
2		12299.9	13085.6		LM LM 1-5
3		12300.1	13085.8		LM
4		12300.4	13086.3		LM COPY BY LM
5		12300.8	13086.7		LM
6		12301.2	13087.9		JDWR
7		12301.8	13087.4		JDWR
8		12301.8	13087.8		JDWR
9		12302.1	13088.1		LM
10		12302.3	13088.3		LM
11		12302.6	13088.1		JDWR
12		12303.1	13089.2		JDWR
13		12303.4	13089.5		JDWR
14		12306.9	13093.6		JDWR
15		12307.7	13094.0		JDWR
16		12307.4	13094.4		WD
17		12307.7	13094.6		TP
18		12308.1	13094.9		TP
19		12313.1	13096.0		TP
20		12313.1	13096.0		WR
21		12313.5	13096.5		JDWR
22		12313.8	13096.8		JDWR
23		12314.5	13097.1		JDWR
24		12314.4	13097.4		LM
25		12314.8	13097.7		LM
26		12315.6	13098.5		JDWR
27		12315.9	13098.9		JDWR
28		12316.2	13099.2		JDWR
29					
30					
31					

No READINGS from 29-31

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
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Signature: _____

JD

Date: _____

08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	NAME
1	1/1	12463.06	13285.01	O	LM
2	1246	12464.00	13285.5	O	LM
3	1246	12464.4	13286.0	O	LD
4	1246	12464.7	13286.4	O	LD
5	1246	12465.5	13288.1	O	LD
6	1246	12465.8	13288.4	O	LD
7	1246	12466.2	13288.8	O	LD
8		12467.7	13290.4	O	FOX
9		12468.1	13290.7	O	FOX
10		12468.6	13291.2	N	LD HM
11		12468.8	13291.6	N	LD
12		12469.2	13292.0	N	LD
13		12469.5	13292.2	N	JD
14		12469.8	13292.5	N	JD
15		12470.1	13293.0	N	LM
16		12470.0	13293.9	O	LM
17		12471.2	13294.3	O	JD
18		12471.7	13294.7	S	LD
19		12472.0	13295.1	O	LD
20		12472.3	13295.4	O	LD
21		12472.5	13295.6	O	LM
22		12472.8	13296.0	O	LD
23		12473.1	13296.4	O	LD
24		12473.5	13296.9	O	LD
25		12473.8	13297.0	O	LD
26		12474.0	13297.9	O	JD
27		12474.4	13298.3	O	JD
28		12474.6	13298.6	O	JD
29		12475.0	13299.1	O	BM
30		12475.3	13299.3	O	BM
31		12475.6	13299.7	O	JD

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Signature: _____

JD

Date: _____

08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR **APR** MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	NAME
1		12476.1	13300.1		JD
2		12476.4	13300.5		JD
3		12476.7	13300.8		JD
4		12478.4	13302.8		JD
5		12478.9	13303.8		JW
6		12479.7	13305.1		JW
7		12460.7	13305.8		JD
8	12480.4	12480.4	13306.0		"
9		12480.7	13306.3		"
10		12481.0	13306.5		"
11		12481.3	13306.9		"
12		12481.5	13307.2		LO TP
13		12482.2	13308.2		LO TP
14		12482.5	13308.6		JD
15		12482.8	13309.9		JD
16		12483.1	13309.2		JD
17		12483.4	13309.6		JD
18		12483.8	13309.9		JD
19		12483.9	13310.1		LM CA
20		12484.7	13310.6		LM CH
21		12491.0	13317.3		JD
22		12493.4	13320.1		JD
23		12494.1	13321.1		JD
24		12494.5	13321.6		JD
25		12494.7	13322.2		JD
26		12494.7	13322.8		HAYES
27		12495.1	13323.6		HAYES
28		12495.4	13324.2		JD
29		12497.4	13326.7		JD
30		12497.5	13327.2		JD
31					

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- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature:

JD

James H. Deaton

Date:

08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

READINGS

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	---	NAME	FLOW
1	5-1-08	12497.8	13327.5	93143873	JL	23599
2	5-2-08	12498.1	13328.0	93165090	JL	21736
3	5-3-08	12498.2	13328.6	93189223	SR LM CH DR	24133
4	5-4-08	12498.3	13329.0	93210991	SR LM CH DR	26768
5	5-5-08	12496.7	13329.5	93237051	JL LD	26160
6	5-6-08	12496.9	13329.8	93258540	JL	21489
7	5-7-08	12499.0	13330.3	93279951	JL	21411
8	5-8-08	12499.3	13330.6	93299614	JL	19663
9	5-9-08	12502.0	13333.0	93470962	JL	17348
10	5-10-08	12502.9	13333.6	93524231	WR MS SB	53269
11	5-11-08	12503.0	13333.9	93545900	MS WR SB	21669
12	5-12-08	12504.6	13335.0	93632887	JL	86987
13	5-13-08	12504.9	13335.4	93660223	LM WJ MS	27336
14	5-14-08	12505.3	13335.7	93683725	LM WJ	23502
15	5-15-08	12505.7	13336.1	93713467	LM MS	29742
16	5-16-08	12506.4	13336.6	93780063	LM MS WJ	36596
17	5-17-08	12506.6	13336.9	93771612	LM MS CD	21549
18	5-18-08	12507.1	13337.3	93792982	LM MS CB	27370
19	5-19-08	12507.4	13337.7	93826525	LM WJ MS	27343
20	5-20-08	12507.9	13338.1	93857529	MS WJ	31064
21	5-21-08	12508.2	13338.4	93887233	MS WJ	23644
22	5-22-08	12508.2	13338.4	93902818	MS WJ	21585
23	5-23-08	12508.8	13339.0	93924291	JL MS WJ	21473
24	5-24-08	12509.4	13339.9	93939250	JW WJ CH	18959
25	5-25-08	12509.4	13339.5	93960861	JW WJ CH	21611
26	5-26-08	12509.8	13339.9	93988258	JW WJ CH	27397
27	5-27-08	12510.1	13340.3	94011873	MS WJ	23615
28	5-28-08	12510.1	13340.6	94035169	MS WJ	23296
29	5-29-08	12510.4	13340.9	94056651	MS WJ	21515
30	5-30-08	12510.9	13341.2	94072337	MS WJ	15653
31	5-31-08	12511.1	13341.5	94091914	SMC LD TP	19577

Instructions:

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- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature:

Pam V. [Signature]

Date:

6-2-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

	DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	Reading	NAME	Flow
1	6-1-08	12511.3	13342.0		94118454	SMC WTP	23540
2	6-2-08	12512.0	13342.8		94155078	MRS LM	39624
3	6-3-08	12512.3	13343.0		94172452	MS WJ	17374
4	6-4-08	12512.3	13343.0		94186120	LM	13668
5	6-5-08	12512.6	13343.3		94207467	LM	21347
6	6-6-08	12512.9	13343.6		94227281	MS WJ	19574
7	6-7-08	12513.1	13343.8		94242692	MS WJ	15411
8	6-8-08	12513.4	13344.1		94262327	LM KA Reed	19635
9	6-9-08	12513.9	13344.6		94292608	LM KA Reed	31281
10	6-10-08	12514.0	13344.6		94309216	LM MS	15608
11	6-11-08	12514.5	13345.1		94330428	MS WJ	29212
12	6-12-08	12514.7	13345.4		94355832	MS WJ	17424
13	6-13-08	12515.1	13345.7		94379282	MS WJ	23430
14	6-14-08	12515.3	13345.9		94390972	WF CH MS	11690
15	6-15-08	12515.6	13346.2		94412539	WF CH MS	21587
16	6-16-08	12515.9	13346.6		94437876	LM MS	25377
17	6-17-08	12516.4	13347.0		94467468	MS WJ	29592
18	6-18-08	12516.4	13347.3		94489210	MS WJ	21742
19	6-19-08	12517.0	13347.6		94510801	LM WJ	21591
20	6-20-08	12517.4	13348.0		94530187	MS WJ	25386
21	6-21-08	12517.7	13348.3		94559708	LM KA CB	23521
22	6-22-08	12518.1	13348.7		94580985	LM KA CB	29277
23	6-23-08	12518.5	13349.3		94618305	MS WJ	29320
24	6-24-08	12518.8	13349.5		94637848	MS WJ	19543
25	6-25-08	12519.1	13349.8		94655413	MS WJ	17565
26	6-26-08	12519.4	13350.1		94678560	MS WJ	23147
27	6-27-08	12519.4	13350.4		94698014	MS WJ	19454
28	6-28-08	12520.1	13350.4		94727997	SB JR TP	29983
29	6-29-08	12520.4	13351.3		94751367	SB JR TP	23370
30	6-30-08	12521.1	13351.8		94798279	MS WJ	46912
31							

Instructions:

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Signature:



Date:

6-30-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER #

YEAR > 2008

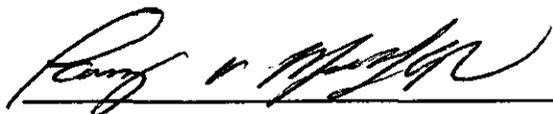
CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1	PUMP #2	PUMP #3	READING	NAME	FLOW
		0005133	0005134	N/A			
1	7-1-08	12521.5	13352.1		94819675	MS WJ	21396
2	7-2-08	12521.7	13352.4		94839364	MS WJ	19689
3	7-3-08	12521.9	13352.8		94861217	MS WJ	21853
4	7-4-08	12522.1	13353.0		94873059	SR JL TP	11842
5	7-5-08	12522.5	13353.3		94894651	JW CH SB	21592
6	7-6-08	12523.1	13354.0		94940022	JW CH SB	45371
7	7-7-08	12524.5	13355.5		95030274	MS WJ	90252
8	7-8-08	12525.1	13356.0		95064949	MS WJ	34675
9	7-9-08	12525.4	13356.4		95088536	MS WJ	23587
10	7-10-08	12525.6	13357.2		95122888	MS WJ	34352
11	7-11-08	12525.9	13357.5		95142501	MS WJ	19613
12	7-12-08	12526.1	13357.6		95154821	LMTWJ KA	11781
13	7-13-08	12526.3	13358.0		95173952	LMTWJ KA	19181
14	7-14-08	12527.1	13358.8		95229377	MS WJ	55425
15	7-15-08	12527.4	13359.2		95250180	MS WJ	20803
16	7-16-08	12527.6	13359.7		95272283	MS WJ	22103
17	7-17-08	12527.9	13359.9		95291748	MS WJ	19465
18	7-18-08	12528.1	13360.1		95307358	MS WJ	15610
19	7-19-08	12528.4	13360.3		95322716	LA SMC TP	15358
20	7-20-08	12528.7	13360.6		95342393	LA SMC TP	19677
21	7-21-08	12529.1	13361.1		95371576	MS WJ	29183
22	7-22-08	12529.3	13361.4		95393004	MS WJ	21428
23	7-23-08	12529.6	13361.6		95410776	MS WJ	17772
24	7-24-08	12530.4	13362.3		95461406	MS WJ	50630
25	7-25-08	12530.6	13362.8		95479195	MS WJ	17289
26	7-26-08	12530.6	13362.8		95494841	LM CR RR	15646
27	7-27-08	12531.1	13363.2		95516422	LM CR RR	21581
28	7-28-08	12532.0	13364.4		95585039	LM WJ HM	68617
29	7-29-08	12532.3	13364.7		95608533	MS WJ	23494
30	7-30-08	12532.6	13365.1		95632588	MS WJ	24055
31	7-31-08	12532.9	13365.4		95652163	MS WJ	19575

Instructions:

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Signature: _____



Date: _____

8-1-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER # P 217331

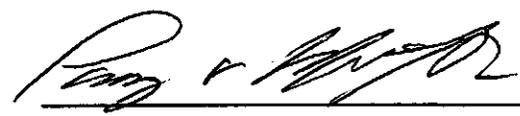
YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #			READING		FLOW
		0005133	0005134	N/A		NAME	
1	8-1-08	12533.1	13365.6		9565592	MS & LM	37640
2	8-2-08	12533.2	13365.9		9569184	MS KA WF	25803
3	8-3-08	12533.4	13366.2		9569379	MS KA WF	17565
4	8-4-08	12533.8	13366.6		95726722	MS WF	27383
5	8-5-08	12534.1	13367.0		95746055	MS WJ	19.323
6	8-6-08	12534.4	13367.2		95765479	MS WJ	19424
7	8-7-08	12534.6	13367.5		95782995	MS WJ	17516
8	8-8-08	12534.6	13367.5		95800343	MS WJ	17348
9	8-9-08	12535.0	13368.0		95813973	LM CH R66d	13630
10	8-10-08	12535.2	13368.3		95833238	LM CH R66d	19265
11	8-11-08	12535.6	13368.7		95860451	MS WJ	27213
12	8-12-08	12535.6	13368.9		95879932	MS WJ	19481
13	8-13-08	12536.2	13369.4		95900692	MS WJ	20760
14	8-14-08	12536.5	13369.7		95920298	LM + WJ	19598
15	8-15-08	12536.7	13369.9		95935433	MS + TJ	15143
16	8-16-08	12537.0	13370.3		95958283	SB SMC TP	22850
17	8-17-08	12537.2	13370.6		95977467	SB SMC TP	19184
18	8-18-08	12537.8	13370.9		96002506	MS WJ	25039
19	8-19-08	12537.9	13371.2		96017649	MS WJ	15343
20	8-20-08	12538.0	13371.4		96035304	MS LM	17455
21	8-21-08	12538.2	13371.0		96052601	MS LM	17297
22	8-22-08	12538.6	13372.0		96073777	MS LM	21176
23	8-23-08	12538.7	13372.2		96095266	LM CH CB	11489
24	8-24-08	12539.0	13372.5		96106499	LM CH CB	21231
25	8-25-08	12539.3	13373.0		96131582	MS LM	25085
26	8-26-08	12539.5	13373.4		96150807	MS LM	19225
27	8-27-08	12539.6	13373.6		96132616	LM MS	11809
28	8-28-08	12540.3	13374.9		9623079	LM MS	68180
29	8-29-08	12542.4	13378.8		96425897	SW CB WR	195901
30	8-30-08	12542.6	13379.1		96441549	SW CB WR	15652
31	8-31-08	12542.8	13379.4		96461265	SW CB WR	19716

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Signature: 

Date: 8-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG **(SEPT)** OCT NOV DEC

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	READING	NAME	FLOW
1		12543.0	13379.8		96482750	OW CB WL	21485
2		12543.3	13380.2		96508265	MS LM	25515
3		12543.6	13380.4		96525942	MS CB	17677
4		12543.0	13380.8		96549273	MS LM	23331
5		12544.2	13381.1		96568653	MS LM	19380
6		12545.6	13382.2		96652769	LM SMC LD	84116
7		12549.2	13385.3		96856946	LM SMC LD	204177
8		12549.7	13385.7		96888699	MS WJ	31753
9		12530.0	13386.1		96910385	MS MS	26686
10		12550.3	13386.3		96930057	MS JD	19672
11		12550.6	13386.6		96949749	MS LM MS	19692
12		12551.0	13386.9		96973237	MS LM MS	23458
13		12551.1	13387.1		96986832	LM CB CB	13595
14		12551.4	13387.4		97006333	LM CB CB	19501
15		12551.8	13387.9		97037711	MS MS	31378
16		12552.1	13388.1		97055205	LM MS MS	15594
17		12552.4	13388.4		97004500	LM MS MS	19295
18		12552.6	13388.8		97093915	MS MS	89415
19		12553.0	13389.0		97111384	WF WL WJ	23469
20		12553.2	13389.2		97130916	WF WR WJ	13532
21		12553.6	13389.4		97152259	MS MS	12343
22		12554.1	13389.8		97181395	LA CB	29126
23		1255.4	13390.0		97200631	MS LA	19236
24		12554.7	13390.2		97218089	MS WJ	17458
25		12555.1	13390.5		97239648	SMC DR TP	21559
26		12558.5	13395.5		97509707	SMC DR TP	270054
27		12559.7	13395.8		97527358	LM MS MS	17656
28		12559.1	13396.1		97552769	LM MS MS	25406
29		12559.5	13396.6		97582130	LM MS MS	29366
30		12559.8	13396.8		97599698	LM MS MS	17568
31							

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Signature: _____



Date: _____

9-30-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER # P217491

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT **(OCT)** NOV DEC

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	READING	NAME	FLOW
1		12560.6	13397.5		97649407	Lm ms ms	49709
2		12560.8	13397.7		97667116	ms ms	17709
3		12561.2	13398.0		97686553	ms Lm WJ	19437
4		12561.3	13398.2		97701000	ms SB RB DA	14447
5		12561.7	13398.5		97724596	SB ms CH DA	23596
6		12562.1	13398.8		97750130	Lm WJ	25536
7		12562.3	13399.2		97769691	Lm WJ	19561
8		12562.6	13399.6		97799189	ms Lm WJ	19498
9		12562.9	13399.8		97808628	Lm WJ ms	19589
10		12563.1	13400.0		97824268	Lm	15640
11		12563.4	13400.1		97839784	Lm KA CB	15516
12		12563.8	13400.4		97861203	Lm KA CB	21419
13		12564.2	13400.7		97888562	Lm WJ	27359
14		12564.4	13401.0		97904124	ms Lm WJ	15562
15		12564.7	13401.3		97925489	ms Lm WJ	21365
16		12565.1	13401.5		97944852	Lm ms WJ	19363
17		12565.8	13402.1		97987235	Lm ms WJ	42383
18		12566.6	13402.8		98042897	JW SMC WJ DA	55662
19		12567.0	13403.0		98062613	JW SMC WJ DA	19806
20		12567.4	13403.3		98088336	Lm WJ ms	25723
21		12567.6	13403.7		98109933	Lm WJ ms	21597
22		12567.9	13404.0		98131416	ms Lm WJ	21483
23		12568.2	13404.3		98150919	ms Lm WJ	19503
24		12568.4	13404.5		98166573	ms Lm WJ	15654
25		12568.8	13404.7		98183669	LD CH TP	17096
26		12569.2	13405.1		98211520	LD CH TP	27851
27		12569.6	13405.7		98246779	Lm ms	35259
28		12569.9	13406.1		98272098	Lm ms	25319
29		12570.2	13406.4		98289678	Lm ms	17580
30		12570.4	13406.8		98313240	Lm ms	23562
31		12570.7	13407.0		98328823	Lm ms	15583

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Signature:



Date:

10-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER # P217581

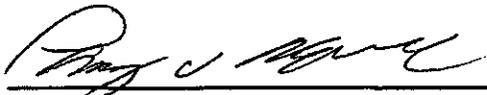
YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT **(NOV)** DEC

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	PUMP #3 N/A	READING	NAME	FLOW
1	11-1-08	12570.9	13407.2		98346288	Lm MS MS	17465
2	11-2-08	12571.5	13408.1		98393592	Lm KA CR	47304
3	11-3-08	12572.6	13409.2		98469448	Lm WJ MS	76856
4	11-4-08	12573.2	13410.2		98525220	MS WJ Lm	55772
5	11-5-08	12573.8	13410.8		98564618	Lm MS WJ	39398
6	11-6-08	12574.1	13411.2		98586202	MS MS MS	21584
7	11-7-08	12574.4	13411.6		98609597	Lm MS WJ	23395
8	11-8-08	12574.6	13411.7		98623055	WF MS WR	13458
9	11-9-08	12574.8	13412.1		98646469	WF MS WR	23414
10	11-10-08	12575.3	13412.6		98681633	MS WJ	35164
11	11-11-08	12575.6	13413.1		98709025	Lm WJ MS	27392
12	11-12-08	12576.0	13413.4		98730305	MS Lm WJ	21280
13	11-13-08	12576.3	13413.5		98759701	Lm MS WJ	29396
14	11-14-08	12576.7	13414.2		98785021	Lm MS WJ	25320
15	11-15-08	12577.2	13415.2		98835342	Lm CH DR	50321
16	11-16-08	12577.4	13415.4		98849045	Lm CH DR	13703
17	11-17-08	12577.4	13415.5		98854751	MS WJ	5704
18	11-18-08	12577.5	13415.6		98860409	MS Lm WJ	5658
19	11-19-08	12577.8	13415.9		98881832	Lm WJ	21423
20	11-20-08	12578.1	13416.3		98906045	MS Lm WJ	24213
21	11-21-08	12578.3	13416.6		98921661	Lm MS WJ	15616
22	11-22-08	12578.6	13416.9		98939283	MS KA CSB	17622
23	11-23-08	12578.9	13417.3		98964907	MS KA CSB	25624
24	11-24-08	12579.3	13417.7		98994386	MS Lm	29479
25	11-25-08	12579.7	13418.0		99019180	Lm	24794
26	11-26-08	12579.9	13418.4		99040701	Lm MS	21521
27	11-27-08	12580.2	13418.7		99061979	MS KA SB CB	21278
28	11-28-08	12580.7	13419.2		99123064	MS KA SB CB	31859
29	11-29-08	12581.0	13419.7		99138095	Lm CB WR AR	29226
30	11-30-08	12581.6	13420.2		99160951	Lm CB WR NR	37887
31							

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Date: 12-1-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
HAMPTON PUMP STATION

WORK ORDER # 9217637

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV **DEC**

DOM	DATE	PUMP #1 0005133	PUMP #2 0005134	REMARKS	READING	NAME	FLOW
1	12-1-08	12582.2	13421.0	LM MS WS	99213009	LM MS WS	52058
2	12-2-08	12582.6	13421.4	MS WS	99238471	MS WS	25462
3	12-3-08	12582.9	13421.8	MS WS LM	99265901	MS WS LM	27430
4	12-4-08	12583.3	13422.2	LM MS WS	99295198	LM MS WS	29297
5	12-5-08	12583.5	13422.5	LM MS WS	99316867	LM MS WS	21669
6	12-6-08	12593.8	13422.7	SB WS SM AR	99328841	SB WS SM AR	19974
7	12-7-08	12584.1	13423.0	SB WS SM AR	99355681	SB WS SM AR	31627
8	12-8-08	12584.5	13423.4	MS WS	99378019	MS WS	22338
9	12-9-08	12584.7	13423.7	MS WS	99395612	MS WS	17503
10	12-10-08	12584.9	13424.8	MS WS	99414992	MS WS	19380
11	12-11-08	12585.8	13425.2	MS WS	99482773	MS WS	67781
12	12-12-08	12587.4	13429.8	MS WS	99684071	MS WS	201298
13	12-13-08	12587.6	13430.1	LA CH TP	99704005	LA CH TP	19934
14	12-14-08	12588.0	13430.5	LA CH TP	99731824	LA CH TP	27819
15	12-15-08	12588.4	13431.0	WT LD	99765685	WT LD	33864
16	12-16-08	12588.8	13431.5	MS WS	99794430	MS WS	28742
17	12-17-08	12589.13	13432.0	MS WS	99826390	MS WS	31960
18	12-18-08	12589.4	13432.4	MS WS	99846058	MS WS	19688
19	12-19-08	12589.7	13432.7	MS	99865850	MS	19792
20	12-20-08	12589.9	13433.0	LM KA CB	99885583	LM KA CB	19733
21	12-21-08	12590.4	13433.6	LM KA CB	99922838	LM KA CB	37255
22	12-22-08	12590.9	13434.1	LM MS	99955167	LM MS	32329
23	12-23-08	12591.2	13434.4	MS LM	99979201	MS LM	24034
24	12-24-08	12591.5	13434.8	MS LM	10000933	MS LM	21730
25	12-25-08	12591.8	13435.1	LM KA CB	100020745	LM KA CB	19812
26	12-26-08	12592.1	13435.4	LM KA CB	100045231	WFWR MS	24486
27	12-27-08	12592.3	13435.8	WFWR MS	100064951	WFWR MS	19720
28	12-28-08	12592.7	13436.1	WFWR MS	100085687	MS LM	23736
29	12-29-08	12593.0	13436.4	MS LM	100110363	MS LM	22676
30	12-30-08	12593.4	13436.8		100133885	MS LM	23522
31	12-31-08	12593.6	13437.1		100153643	MS LM	19958

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Signature: _____

Date: 12-31-08

**CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT**

**MONTHLY PUMP READINGS
MCCLOY PUMP STATION**

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1		184.7	6329.8	D R S P u m p s f o r e	9.5	9.3	JW
2		109.7	6333.3		8.6	7.5	LM
3		119.6	6334.8		9.6	9.5	JW
4		119.7	6343.9		8.8	8.3	LM, JW
5		119.7	6350.6		8.9	8.7	LM
6		124.4	6353.8		9.8	9.6	SM C LMM
7		130.0	6357.8		9.6	9.5	DDS
8		130.0	6361.9		9.2	8.7	DDS
9		140.4	6367.5		9.3	9.1	DDS
10		146.0	6367.5		8.8	8.6	DDS
11		151.7	6375.2		9.3	9.2	DDS
12		156.5	6378.7		9.2	9.0	DDS
13		161.6	6381.7		10.1	9.8	FOX
14		167.7	6388.5		9.7	9.2	FOX
15		172.9	6394.8		8.7	8.5	JW LD
16		178.7	6398.8		9.2	9.1	JW LD
17		184.0	6406.8		9.2	8.9	JW LD
18		188.8	6415.9		10.1	9.9	JW LD
19		192.8	6421.3		8.9	8.5	JW LD
20		196.9	6433.3		8.7	7.7	LM CH
21		200.6	6442.1		10.0	9.7	LM CH
22		206.8	6450.7		8.7	7.9	LM CH
23		211.2	6459.1		8.9	8.7	JW LD
24		214.7	6468.2		8.6	7.2	JW LD
25		218.9	6476.7		9.7	9.1	JW LD
26		223.5	6483.3		9.0	7.3	JW LD
27		227.9	6491.7		9.4	9.1	TP CH
28		233.5	6500.9		9.4	9.2	TP CH
29		236.8	6509.0		8.9	8.8	DDS
30		242.6	6515.1		8.6	9.6	JW
31		247.3	6518.6		8.7	8.1	DDS LD

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Signature: _____

JD

Date: _____

08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER #

YEAR >

2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1		257.8	652.66	O U L T O N 2 P u m p s A d d e d	26.5	26.4	none
2		257.8	652.56		26.5	26.4	DDS LD
3		276.5	652.66		25.3	25.1	LM CH
4		300.7	652.66		14.3	14.2	LM CH
5		310.0	6530.4		9.8	8.8	DDS LD
6		313.4	6535.5		15.3	15.1	LD
7		313.4	6535.5		17.8	17.8	LD JD
8		322.4	6539.6		10.1	8.7	LD JD
9		334.6	6544.5		10.1	9.9	LD JD
10		347.1	6549.5		10.1	9.5	CH
11		365.2	none		15.1	9.8	CH
12		365.2	16.4		10.1	9.9	LD JD
13		374.0	18.1		10.1	9.5	LD JD
14		388.7	20.8		9.8	9.7	LD
15		390.6	34.6		9.9	7.6	LD WR
16		397.7	41.3		9.4	10.0	LD WR
17		403.8	45.8		9.5	7.1	JW
18		410.0	48.7		9.7	8.3	JW
19		415.3	50.6		9.6	9.5	JW
20		415.9	50.8		15.3	13.1	LD
21		418.8	50.8		15.4	15.2	LD JD
22		420.2	52.5		10.0	9.9	LD JD
23		423.5	53.1		14.8	14.6	LD JD
24		427.0	54.6		9.8	9.5	LD CH
25		429.6	56.6		10.1	9.9	LD CH
26		432.9	57.7		9.1	9.7	LD JD
27		434.7	59.0		10.0	9.9	LD JD
28		437.5	60.9		9.8	9.7	LD JD
29		439.0	62.3		10.1	9.7	LD JD
30		442.0	64.1		9.9	9.5	LD
31							

* ~~NO PUMP #2~~ FEB NO PUMP #2 READING ON ELEMENT A *
* NO NAMES FOR 1ST of FEB.

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
- 2.) Circle the Month that you are working on.
- 3.) Enter the Date and Record the Pump Readings on the form.
- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: _____

JD

Date: _____

as

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR **APR** MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1		526.8	217.0		13.6	7.7	JD
2		585.5	224.7		13.8	9.4	JD
3		594.6	232.1		13.9	8.4	JD
4		599.3	235.8		22.7	22.5	JD
5	?	599.2	235.7		25.0	24.8	JW WT SA ?
6	?	?	?		?	?	JW WT SA ?
7		599.2	235.7		29.7	29.2	JD
8		599.2	235.7		30.6	30.5	"
9		599.3	235.8		32.5	32.3	"
10		599.3	258.9		25.7	25.5	"
11		594.3	283.1		17.3	16.7	"
12		606.7	291.2		18.5	8.7	TP
13		612.1	203.7		13.6	10.3	PP
14		621.9	315.9		14.7	7.9	PP
15		630.5	326.7		14.2	8.4	JD
16		639.0	337.3		14.7	9.9	JD
17		647.7	348.3		14.4	10.2	JD
18		650.9	360.1		14.2	9.4	LD
19		663.1	368.7		14.4	10.3	LM CH
20		671.0	378.5		14.4	1.7	LM CH
21		671.3	393.5		57.7	57.4	JD
22		692.2	393.5		24.9	24.4	JD
23		716.7	393.5		26.7	26.4	JD
24		740.3	393.5		21.3	21.2	JD
25		754.5	296.4		13.0	8.6	JD
26		760.2	400.4		13.2	8.0	Hayes
27		764.4	414.4		12.9	8.8	Hayes
28		760.9	406.9		12.8	8.8	JD
29		767.6	407.2		23.8	23.6	JD
30		767.6	407.2		24.1	24.0	JD
31							

NO READINGS on SAN 6TH APRIL

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
- 2.) Circle the Month that you are working on.
- 3.) Enter the Date and Record the Pump Readings on the form.
- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: JD

Date: 08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER # P 217081

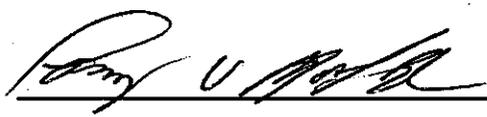
YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR (MAY) JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1	5-1-08	767.6	407.2		24.5	24.3	JD
2	5-2-08	768.4	426.3		12.4	9.1	JD
3	5-3-08	770.8	428.5		12.3	7.8	Lm + CH + RGGd
4	5-4-08	780.5	432.9		14.7	8.0	SB + Lm + CH DR
5	5-5-08	790.5	437.8		16.0	6.8	JD
6	5-6-08	798.0	442.8		15.2	9.9	JD
7	5-7-08	805.6	448.1		15.2	8.6	JD
8	5-8-08	813.0	453.3		15.7	7.0	JD
9	5-9-08	816.7	455.7		29.9	29.7	JD
10	5-10-08	816.5	477.8		24.2	24.0	WR ms - SB
11	5-11-08	818.3	498.5		13.1	8.9	MS WR SB
12	5-12-08	820.2	500.3		32.8	32.5	JD
13	5-12-08	822.2	500.3		35.0	34.7	Lm WJT MS
14	5-14-08	822.2	509.6		30.8	30.5	Lm WJT
15	5-15-08	822.2	533.7		24.2	23.9	Lm MS
16	5-16-08	824.6	554.1		8.1	7.7	Lm MS WJT
17	5-17-08	829.8	560.6		10.4	10.0	Lm SM + CB
18	5-18-08	832.4	567.3		8.0	7.6	Lm SM + CB
19	5-19-08	835.2	573.6		9.6	9.4	Lm MS + WJT
20	5-20-08	0/S	580.5		9.6	9.4	MS WJT
21	5-21-08	0/S	580.5		8.7	8.9	MS WJT
22	5-22-08	0/S	609.7		16.8	17.0	MS WJT
23	5-23-08	0/S	610.3		18.9	19.1	MS WJT
24	5-24-08	0/S	622.6		9.5	8.5	JW CH WJT
25	5-25-08	0/S	647.0		13.5	13.1	JW CH WJT
26	5-26-08	0/S	651.2		9.4	8.9	JW CH WJT
27	5-27-08	0/S	651.4		17.6	17.8	MS WJT
28	5-28-08	835.4	651.4		19.3	19.1	MS WJT
29	5-29-08	885.4	651.4		20.1	20.6	MS WJT
30	5-30-08	835.4	664.2		8.4	11.8	MS WJT
31	5-31-08	835.4	671.3		8.0	12.1	SMC LD TP

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
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- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: 

Date: 6-2-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER #

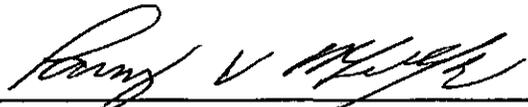
YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY **JUNE** JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1	6-1-08	835.4	680.4		12.3	7.3	smc LD TP
2	6-2-08	835.4	688.5		18.5	18.7	ms WJ
3	6-3-08	835.4	688.2		20.7	20.9	ms Lm
4	6-4-08	835.4	701.5		17.8	17.3	Lm
5	6-5-08	835.4	712.8		10.1	9.9	ms WJ
6	6-6-08	835.4	723.4		12.2	9.8	ms WJ
7	6-7-08	835.4	732.7		14.0	8.2	Lm KA REGD
8	6-8-08	835.4	743.4		14.1	8.0	Lm KA REGD
9	6-9-08	835.4	754.8		14.3	8.0	ms WJ
10	6-10-08	835.4	765.0		14.3	9.2	ms WJ
11	6-11-08	835.4	776.1		14.3	9.5	ms WJ
12	6-12-08	835.4	776.1		14.3	9.2	ms WJ
13	6-13-08	835.4	797.6		14.4	7.5	ms WJ
14	6-14-08	835.4	808.8		13.9	8.9	WF ms CH
15	6-15-08	835.4	818.3		14.9	7.7	WF ms CH
16	6-16-08	835.4	828.4		15.1	9.4	Lm ms
17	6-17-08	835.4	836.9		16.8	16.7	ms WJ
18	6-18-08	835.4	839.9		12.6	17.8	ms WJ
19	6-19-08	835.4	839.9		20.0	19.7	Lm WJ
20	6-20-08	835.4	844.5		18.1	18.4	ms WJ
21	6-21-08	835.4	844.5		20.7	20.4	Lm KA CB
22	6-22-08	835.4	857.1		22.5	22.2	Lm KA CB
23	6-23-08	835.4	869.1		12.9	8.5	ms WJ
24	6-24-08	835.4	881.1		14.2	7.6	ms WJ
25	6-25-08	835.4	892.2		14.2	9.3	ms WJ
26	6-26-08	835.4	903.7		14.2	10.1	ms WJ
27	6-27-08	835.4	915.2		14.2	9.2	SB IR TP ms WJ
28	6-28-08	835.4	927.8		14.4	9.2	SB IR TP
29	6-29-08	835.4	939.5		14.5	9.7	SB TR TP
30	6-30-08	835.4	946.1		18.8	18.9	ms WJ
31							

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- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: 

Date: 6-30-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE **(JULY)** AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1	7-1-08	835.4	946.1		20.6	20.6	MS WJ
2	7-2-08	835.4	953.1		18.0	18.2	MS WJ
3	7-3-08	835.4	966.6		14.7	10.2	MS WJ
4	7-4-08	835.4	978.7		14.7	8.0	SB JX TP
5	7-5-08	835.4	990.9		14.8	8.9	JWCH SR
6	7-6-08	835.4	1001.0		17.5	17.3	WCH SR
7	7-7-08	835.4	1001.0		26.5	26.7	MS WJ
8	7-8-08	835.4	1008.3		26.4	26.6	MS WJ
9	7-9-08	835.4	1015.9		24.3	24.6	MS WJ
10	7-10-08	835.4	1037.4		7.9	13.2	MS WJ
11	7-11-08	835.4	1047.5		7.9	13.2	MS WJ
12	7-12-08	835.4	1056.1		13.7	9.4	LM WJ KA
13	7-13-08	835.4	1065.7		14.1	9.3	LM WJ KA
14	7-14-08	835.4	1075.5		16.3	16.1	MS WJ
15	7-15-08	835.4	1079.8		16.8	17.0	MS WJ
16	7-16-08	835.4	1087.9		8.0	14.2	MS WJ
17	7-17-08	835.4	1097.5		8.1	14.4	MS WJ
18	7-18-08	835.4	1106.7		8.6	14.6	MS WJ
19	7-19-08	835.4	1116.6		14.8	9.4	LD SMC TP
20	7-20-08	835.4	1126.2		14.9	7.4	LD SMC TP
21	7-21-08	835.4	1136.2		6.7	14.9	MS WJ
22	7-22-08	835.4	1145.5		7.8	15.0	MS WJ
23	7-23-08	835.4	1155.6		10.0	15.0	MS WJ
24	7-24-08	835.4	1160.4		18.3	18.6	MS WJ
25	7-25-08	835.4	1163.9		17.9	18.1	MS WJ
26	7-26-08	835.4	1166.9		17.9	17.3	LM CB TRA
27	7-27-08	835.4	1166.9		19.3	19.1	LM CB RA
28	7-28-08	835.4	1171.0		25.1	24.4	LM WJ HM
29	7-29-08	835.4	1171.0		25.6	25.8	MS WJ
30	7-30-08	835.4	1192.4		11.1	14.6	MS WJ
31	7-31-08	835.4	1201.4		6.7	13.6	MS WJ

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Signature: _____



Date: _____

8-1-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER # P 217331

YEAR > 2008

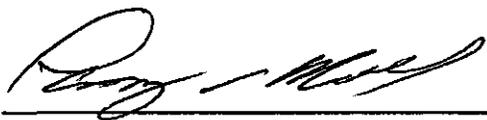
CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY **(AUG)** SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1	8-1-08	835.4	1211.3		13.9	9.4	MS LM
2	8-2-08	835.4	1218.5		14.7	8.2	MS KA WF
3	8-3-08	835.4	1223.2		13.7	9.0	MS KA WF
4	8-4-08	835.4	1227.8		13.7	7.4	MS WT
5	8-5-08	835.4	1231.8		13.7	9.0	MS WJ
6	8-6-08	835.4	1236.1		13.7	9.0	MS WJ
7	8-7-08	835.4	1240.3		13.7	9.4	MS WJ
8	8-8-08	835.4	1244.8		13.7	7.4	MS WJ
9	8-9-08	835.4	1248.3		13.7	9.4	LM CH RGED
10	8-10-08	835.4	1254.7		13.9	9.5	LM CH RGED
11	8-11-08	835.4	1264.3		14.0	9.9	MS WJ
12	8-12-08	835.4	1273.8		14.1	8.2	MS WJ
13	8-13-08	835.4	1282.8		14.1	10.0	MS WJ
14	8-14-08	835.4	1292.1		14.3	7.0	LM & WJ
15	8-15-08	835.4	1301.5		14.1	7.1	MS & TP
16	8-16-08	835.4	1311.7		14.2	10.0	SR SMC & TP
17	8-17-08	835.4	1321.0		14.2	9.3	SR SMC TP
18	8-18-08	835.4	1331.9		14.2	8.5	MS WJ
19	8-19-08	835.4	1342.2		14.2	9.9	MS WJ
20	8-20-08	835.4	1349.8		14.2	8.6	LM & MS
21	8-21-08	835.4	1360.1		14.5	9.8	LM & MS
22	8-22-08	835.4	1370.8		14.6	9.1	LM & MS
23	8-23-08	835.4	1378.6		14.5	8.2	LM CH CB
24	8-24-08	835.4	1388.4		14.5	10.0	LM CH CB
25	8-25-08	835.4	1398.8		14.6	8.2	LM & MS
26	8-26-08	835.4	1408.3		14.6	8.2	LM & MS
27	8-27-08	835.4	1418.5		14.5	8.0	MS LM
28	8-28-08	835.4	1428.2		21.1	20.8	MS LM
29	8-29-08	835.4	1426.4		68.4	68.1	MS LM
30	8-30-08	835.4	1445.4		27.2	27.4	JW CH WR
31	8-31-08	835.4	1469.8		18.7	18.4	JW CH WR

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Signature: _____



Date: _____

8-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER #

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG **SEPT** OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1		835.4	1481.9		13.9	8.0	Lm MS
2		835.4	1492.2		14.1	8.2	Lm MS
3		835.4	1501.9		14.2	7.7	MS CB
4		835.4	1611.5		14.2	8.5	MS LM
5		835.4	1521.3		14.3	9.8	MS LM
6		835.4	1525.6		21.4	21.2	Lm SMC LD
7		835.4	1528.0		68.2	67.9	Lm SMC LD
8		835.4	1549.1		26.7	26.3	MS WT
9		835.4	1570.7		16.0	16.2	MS MS
10		835.4	1577.5		14.5	14.1	MS JD
11		835.4	1584.2		13.7	9.2	Lm MS MS
12		835.4	1585.0		16.7	16.4	Lm MS MS
13		835.4	1589.4		13.7	9.9	Lm CH CB
14		835.4	1598.0		13.7	8.8	Lm CH CB
15		835.4	1596.8		13.8	7.6	MS MS
16		835.4	1603.6		14.4	9.8	MS MS
17		835.4	1612.9		14.7	8.5	MS MS
18		835.4	1622.1		14.8	9.7	Lm ML MS
19		835.4	1632.4		14.9	9.5	MS MS
20		835.4	1640.7		15.0	7.6	WF WR WT
21		835.4	1650.2		15.1	8.2	WF WR WT
22		835.4	1659.9		15.1	8.2	MS MS
23		835.4	1669.6		15.1	9.7	LD CB
24		835.4	1678.6		15.2	8.5	MS LD
25		835.4	1687.7		15.2	9.4	MS LD
26		835.4	1690.9		68.1	68.4	MS WT
27		835.4	1711.2		26.9	26.6	SMC DR TP
28		835.4	1734.7		16.0	15.7	SMC DR TP
29		835.4	1734.7		18.6	18.6	Lm MS MS
30		835.4	1734.7		20.0	19.7	Lm MS MS
31							

Instructions:

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Signature: _____



Date: _____

9-30-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER # P217491

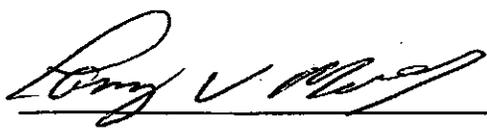
YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT (OCT) NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1		835.4	1744.7		14.9	8.1	Lm MS MS
2		835.4	1754.2		14.1	6.7	MS MS
3		835.4	1762.7		14.1	9.0	MS LM WJ
4		835.4	1771.7		14.3	8.1	SR CH MS DA
5		835.4	1780.8		14.6	7.2	SR MC CH DA
6		835.4	1790.0		14.7	8.6	Lm WJ
7		835.4	1798.7		14.7	9.9	Lm WJ
8		835.4	1808.1		14.8	8.1	Lm MS WJ
9		835.4	1817.1		14.8	8.1	MS LM WJ
10		835.4	1824.8		16.2	16.0	LM
11		835.4	1828.6		14.2	9.7	Lm KA CB
12		835.4	1837.7		14.3	8.9	Lm KA CB
13		835.4	1847.3		14.5	9.3	Lm WS
14		835.4	1856.3		14.6	7.9	Lm MS WJ
15		835.4	1865.4		14.7	9.7	Lm MS WJ
16		835.4	1874.9		14.8	9.9	MS LS WJ
17		835.4	1883.9		19.0	18.8	Lm MS WJ
18		835.4	1883.9		20.3	20.6	JW WJ SMC
19		835.4	1883.9		21.3	21.6	JW WJ SMC
20		835.4	1883.9		22.6	22.4	Lm MS WJ
21		835.4	1894.9		17.4	17.1	Lm MS WJ
22		835.4	1896.3		18.1	17.1	Lm MS WJ
23		835.4	1905.8		14.4	8.5	Lm MS WJ
24		835.4	1915.0		14.8	7.8	Lm MS WJ
25		835.4	1923.6		15.1	9.2	LD CH TP
26		835.4	1932.9		15.2	9.1	LD CH TP
27		835.4	1942.6		15.3	7.5	MS LM
28		835.4	1951.7		15.4	7.5	Lm MS
29		835.4	1961.0		15.4	10.0	MS LM
30		835.4	1969.9		14.8	8.6	MS LM
31		835.4	1978.2		14.9	9.4	MS LA

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
- 2.) Circle the Month that you are working on.
- 3.) Enter the Date and Record the Pump Readings on the form.
- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: 

Date: 10-31-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER # P217581

YEAR > 2008

CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT **(NOV)** DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME
1	11-1-08	835.4	1987.6		15.0	8.0	
2	11-2-08		1996.5		15.1	7.9	
3	11-3-08		2006.0		15.4	9.7	
4	11-4-08		2014.9		15.5	9.6	
5	11-5-08		2024.3		15.7	9.6	
6	11-6-08		2033.3		15.7	8.8	
7	11-7-08		2042.3		15.8	8.8	
8	11-8-08		2051.0		15.8	7.5	
9	11-9-08		2060.0		15.8	7.1	
10	11-10-08		2069.5		15.9	7.8	
11	11-11-08		2078.3		16.0	8.5	
12	11-12-08		2087.1		16.0	9.6	
13	11-13-08		2096.2		16.0	10.0	
14	11-14-08		2105.3		16.0	10.0	
15	11-15-08		2112.0		29.5	29.2	
16	11-16-08		2112.0		30.3	30.1	
17	11-17-08		2112.0		31.4	31.2	
18	11-18-08		2112.0		32.6	32.4	
19	11-19-08		2112.0		34.1	33.8	
20	11-20-08		2136.9		24.1	23.7	
21	11-21-08		2150.5		17.3	17.0	
22	11-22-08		2150.5		15.3	8.3	
23	11-23-08		2167.0		15.4	9.3	
24	11-24-08		2177.1		15.8	9.4	
25	11-25-08		2184.9		15.9	8.7	
26	11-26-08		2193.2		16.0	8.6	
27	11-27-08		2201.1		16.0	8.7	
28	11-28-08		2209.4		16.1	7.6	
29	11-29-08		2217.7		16.0	7.5	
30	11-30-08		2225.8		16.1	7.5	
31		835.4					

OUT OF SERVICE

Instructions:

- 1.) Record the Mainsaver Work Order Number in the Box at the top of the form.
- 2.) Circle the Month that you are working on.
- 3.) Enter the Date and Record the Pump Readings on the form.
- 4.) Close the Work Order (in Mainsaver) at the end of the month.
- 5.) Sign & Date this Form.
- 6.) Turn the completed Work Order & form in to your Supervisor.

Signature: _____

[Handwritten Signature]

Date: _____

12-1-08

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY PUMP READINGS
MCCLOY PUMP STATION

WORK ORDER # P217637

YEAR > 2008

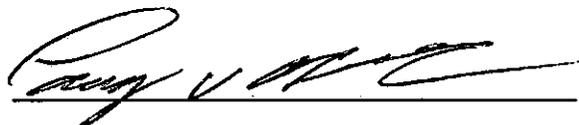
CIRCLE THE MONTH: JAN FEB MAR APR MAY JUNE JULY AUG SEPT OCT NOV DEC

DOM	DATE	PUMP #1 0005933	PUMP #2 0005934	PUMP #3 N/A	TUNNEL ELEV.	WET WELL ELEV.	NAME	
1	12-1-08	835.4	2237.0		16.5	8.6	Lm MS WJ	
2	12-2-08	↑ out of service ↓	2245.0		16.6	10.0	MS WJ	
3	12-3-08		2251.9		16.2	8.0	MS Lm WJ	
4	12-4-08		2252.1		17.0	16.7	Lm MS WJ	
5	12-5-08							
6	12-6-08			2264.5		16.1	9.9	SB WJ Sm
7	12-7-08							
8	12-8-08			2281.2		16.2	8.8	MS WJ
9	12-9-08			2289.2		16.3	9.6	MS WJ
10	12-10-08			2297.5		16.4	7.0	Ml WJ
11	12-11-08			2303.8		26.2	20.2	MS WJ
12	12-12-08		2303.8		62.6	68.3	MS WS	
13	12-13-08		2315.5		29.9	29.4	LA CH TP	
14	12-14-08		2323.7		21.8	21.3	LD CH TP	
15	12-15-08		2346.4		18.5	18.3	WJ LD	
16	12-16-08		2346.4		22.0	21.7	MS WJ	
17	12-17-08		2346.4		22.8	22.6	Ml WJ	
18	12-18-08		2346.4		23.6	23.3	MS WJ	
19	12-19-08		2346.5		24.2	24.0	MS MS	
20	12-20-08		2360.8		17.4	17.2	Lm KA CB	
21	12-21-08		2360.8		19.2	18.9	Lm KA CB	
22	12-22-08		2360.8		20.9	20.7	MS Lm	
23	12-23-08		2367.9		17.2	16.9	MS Lm	
24	12-24-08		2368.9		18.4	18.1	Lm KACB	
25	12-25-08		2370.5		18.7	18.4	Lm KACB	
26	12-26-08		2370.5		20.0	19.7	WF WR MS	
27	12-27-08		2374.5		18.6	18.3	WF WR MS	
28	12-28-08		2374.5		19.8	19.6	MS Lm	
29	12-29-08		2379.2		18.0	17.7	Lm MS	
30	12-30-08		2382.6		14.5	7.2	Lm MS	
31	12-31-08	835.4	2395.8		14.7	9.5	Lm MS	

Instructions:

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- Sign & Date this Form.
- Turn the completed Work Order & form in to your Supervisor.

Signature:



Date:

12-31-08

Combined Sewer System Report for 2008

APPENDIX 4-3

Sewer Flushing, Cleaning and TV

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

YEARLY
SEWER TV/CLEANING REPORT

Year 2008

DATE	MONTHLY TOTAL LENGTH OF SEWER TELEVISED	MONTHLY TOTAL LENGTH OF SEWER CLEANED
January	5,221	10,444
February	5,221	5,569
March	17,352	20,330
April	14,092	14,092
May	7,781	14,269
June	27,756	28,686
July	21,871	21,871
August	31,128	33,110
September	12,334	8,186
October	27,608	23,169
November	39,544	27,493
December	24,406	29,994
YEARLY TOTAL	234,313	237,213

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CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: January

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
2	4600 Grove Avenue	12	308.3	308.3
3	5780 Swanson Rd.	8		150
4	2600 Blk Melborne Dr.	8		1120
8	010 Locke Lane	8	305.6	305.6
8	4800 Blk Hanover Avenue	15	395	395
9	4207 Springhill Ave	4	74	
9	5700 Blk Southpine Dr.	8		1034
10	1803 Lynhaven Dr	6	45	
10	1823 Powhatan St	12		220
11	1500 Blk Dock St	12		561
11	201 Matoaka Rd.	8		565
15	4312 Ashlawn Ave	8	98	
15	2500 5th Ave	10	104	
15	3503 Seminary Ave	12	268	
15	1500 Blk Dock St	10		550
15	4312 Ashlawn Ave	8		112
15	4900 Cary Street	36	260.8	260.8
15	4900 & 4800 Cary Street	36	423.8	423.8
15	4800 Cary Street	36	321.5	321.5
15	4700 Cary Street	36	339.4	339.4
16	2300 E Cary St	10	164	
16	1400 Carlisle Ave	8	551	
16	2712 McLeod Dr.	4	111	
16	010 Willway Avenue	8	144.8	144.8
16	4600 Cary Street	36	353.1	353.1
16	4600 Cary Street	18	48.5	48.5
17	3009 Hanover Dr	4	41	
23	208 Hillwood Dr	12	268	
23	1200 Blk E. Cary St	8		325
24	4606 Stuart Ave	4	33	
24	Shadwell Ave btw Grove and Hanover Aves	10	162.6	162.6
24	4500 Cary Street	36	401	401
28	3100 Blk Wentbridge Rd	8		140
28	201 S. Walton Rd.	8		150
29	1902 Chelsea Dr.	12		821
30	520 Faye St	8		564
31	4811 Wythe Ave.	8		348
31	1200 Blk E. Cary St	8		20
31	4811 Wythe Ave.	8		300

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: February

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
	City TV & Clean			
	Contractor TV & Clean			
1	208 Hillwood Ave	12	279.0	
1	521 N 29th St	6		10.0
4	4800 Blk Whitby	8		410.0
4	1700 Blk Carlisle	12	540.0	540.0
4	400 Blk Granite Dr..	8		440.0
5	1500-1600 blk Carlisle	8	680.0	680.0
6	1500-1400 blk Carlisle	8	687.0	687.0
6	490 blk Waverly St	8	125.0	125.0
6	1300 blk Carlisle	8	335.0	335.0
6	1400 Blk Hopkins Rd	10		80.0
7	1200 blk Carlisle	8	338.0	338.0
8	1100 Blk Carlisle	15	680.0	680.0
13	010 Blk Clarke Rd	10	221.7	221.7
13	010 Blk Maxwell	10	190.8	190.8
13	010 Blk Maxwell	10	170.4	170.4
18	1413 Claremont Ave	8	50.0	
18	1413 Claremont Ave	15	309.0	
20	700 Blk Broad St	8	30.0	
22	3500 blk Cutshaw Ave Run A	36	85.0	85.0
25	4235 Shirley rd	6		14.0
25	1208 Laburnum Ave	6	8.0	
26	375 Lexington	8	316.0	
26	21 E Leigh St	6	38.0	
27	500 E. Leigh St.	8		408.0
28	6300 Pepper St	8	138.0	
29	317 Lanewood Dr..	12		154.0

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: March

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
	City TV & Clean			
	Contractor TV & Clean			
3	3500 Blk Cutshaw Ave -run H	36	563	563
3	3500 Blk Cutshaw Ave -run G	36	77	77
3	2608 W Main St	6	50	
4	K-Mart/ Midlothian Trpk	8		463
4	Battery Park Survey	24	60	60
4	3400 Blk Cutshaw Ave -run I	36	325	325
4	3300 Blk Cutshaw Ave -run J	36	332	332
4	3200 Blk Cutshaw Ave -run K	36	402	402
5	3100 Blk Cutshaw Ave -run L	36	456	456
5	2410 Wood St	6	18	
6	217 E Leigh St	6	49	
6	13 E Main St	6	15	
7	Battery Park Survey	12	345	
10	1400 Blk Commerce Rd	10		1104
10	2705 2nd. Ave	8		110
11	7100 Blk Patterson Ave Run 1	8	260	260
11	7000 Blk Patterson Ave Run 2	8	255	255
11	7000 Blk Patterson Ave Run 3	8	17	17
11	1206 Lorraine St	12		600
11	427 N 26th St	6	51	
12	3600 Blk Chamberlayne Ave.	6		25
12	1720 Jaquelin St.	6		50
12	4200 Blk Old Brook Rd.	8		700
12	Fauquier Ave, Princeton Creek Storm	42	263	
12	McArthur Ave, Princeton Creek Storm	42	323	
12	Clinton Ave, Princeton Creek Storm	36	328.7	
13	512 Monroe St	6		40
13	Monticello St, Princeton Creek Storm	30	334.8	
13	Mt. Vernon St, Princeton Creek Storm	24	335.96	
13	Fauquier Ave, Princeton Creek Storm	36	452.97	
13	Fauquier Ave, Princeton Creek Storm	60	346.37	
13	6200 Blk Patterson Ave Run 13	8	182	182
13	6300 Blk Patterson Ave Run 14	8	415	415
13	6300 Blk Patterson Ave Run 15	8	149	149
13	6300 Blk Patterson Ave Run 16	8	271	271
13	6300 Blk Patterson Ave Run 17	8	41	41
13	6300 Blk Patterson Ave Run 18	8	178	178
13	6300 Blk Patterson Ave Run 18A	8	63	63
13	512 Monroe St	6	40	
14	6400 Blk Patterson Ave Run 19	8	220	220
14	6100 Blk Patterson Ave Run 20	8	206	206
14	6100 Blk Patterson Ave Run 21	8	305.24	305.24
14	6100 Blk Patterson Ave Run 22	8	228	228
14	4900 Blk Old Brook Rd.	12		556
14	2313 Idlewood Rd.	6		25
14	3214 Chamberlyane Ave.	6		20
14	2313 Idlewood Ave	6	24	
17	7000 Blk Patterson Ave Run 4	8	254	254
17	6900 Blk Patterson Ave Run 5	8	400.2	400.2
17	500 Maplewood St	12		6
17	2000 Blk Peyton Ave.	12		250
19	801 St Christopher Rd	6	41	
19	3600 Chamberlyane Ave	12	66	

YEAR: 2008

MONTH: MarchCity TV & Clean
Contractor TV & Clean

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
19	206 Tuckahoe Ave	12	203	
20	Battery Park Survey	24	75	
20	Battery Park Survey	12	70	
24	6900 Blk Patterson Ave Run 6	8	399	399
24	6700 Blk Patterson Ave Run 7	8	310	310
24	1838 Botetout St	6	43	
24	4007 Sharon Rd	12	120	
24	3120 Lanewood Dr	12	477	
25	2410 Wood St	8		550
25	6700 Blk Patterson Ave Run 9	8	349	349
25	6800 Blk Patterson Ave Run 28	15	334.27	334.27
25	6800 Blk Patterson Ave Run 29	18	257.85	257.85
25	6800 Blk Patterson Ave Run 30	15	314.1	314.1
25	6700 Blk Patterson Ave Run 31	18	335.33	335.33
26	4902 Goddin St.	8		150
26	1200 Eggleston Ave.	8		1010
26	6300 Blk Patterson Ave Run 44	15	306.8	306.8
26	6600 Blk Patterson Ave Run 10	8	351	351
26	6500 Blk Patterson Ave Run 11	8	344	344
26	6500 Blk Patterson Ave Run 12	8	346	346
26	6500 Blk Patterson Ave Run 35	15	368.22	368.22
26	6500 Blk Patterson Ave Run 36	15	340	340
26	6500 Blk Patterson Ave Run 37	15	16	16
26	6400 Blk Patterson Ave Run 38	15	250.36	250.36
26	6400 Blk Patterson Ave Run 39	15	16.3	16.3
27	24 E. Cary St.	12		250
27	5900 Blk Patterson Ave Run 47	15	309.1	309.1
27	5900 Blk Patterson Ave Run 48	18	386.75	386.75
27	6000 Blk Patterson Ave Run 23	8	295	295
27	5900 Blk Patterson Ave Run 24	8	327	327
27	5800 Blk Patterson Ave Run 25	18	363.8	363.8
27	5800 Blk Patterson Ave Run 26	21	312.5	312.5
27	5800 Blk Patterson Ave Run 27	8	300	300
28	1713 N. 23rd St	4		20
28	7608 Forest Hill Ave.	6		30
28	400 blk Shannon Ct.	8		249
28	2100 Blk 2nd Ave.	8	362	362
31	2300 Blk Idlewood Ave.	8		422
31	Bangle Rd at Lauralbrook Rd	8		420
31	6500 Blk Patterson Ave Run 32	8	223	223
31	6700 Blk Patterson Ave Run 8	8	33	33
31	6300 Blk Patterson Ave Run 43	15	70	70

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: April

City TV & Clean Contractor TV & Clean		SEWER LENGTH (FT)		
DATE	LOCATION	PIPE SIZE	TELEVISED	CLEANED
1	1422 Winder St	12	360	
1	406 Gilmer st	8	74	
1	6300 Blk Patterson - Run #40	8	126.0	126.0
1	6500 Blk Patterson - Run #33	8	222.0	222.0
1	6500 Blk Patterson - Run #34	8	80.4	80.4
2	1609 Princeton RD	8	72	
2	2200 Chateam Dr	8		500
2	5800 Blk Patterson - Run #46	8	102.0	102.0
2	6200 Blk Patterson - Run #45	8	115.0	115.0
2	6300 Blk Patterson - Run #41	8	317.0	317.0
2	6300 Blk Patterson - Run #42	8	57.0	57.0
2	1422 Winder St.	12		425
3	112 N 5th	8		200
4	1215 Oakwood Ave	8	60	
4	1816 Monument Ave	12	379	
4	Battery Park	12	115	
7	2400 Blk Whitcomb - Run #B	15	289.0	289.0
7	2400 Blk Whitcomb - Run #C	15	131.0	131.0
7	2400 Blk Whitcomb - Run #D	15	149.0	149.0
7	2500 Blk Whitcomb - Run #A	12	345.0	345.0
8	1900 Blk Conrad St - Run #E	21	386.3	386.3
8	1900 Blk Conrad St - Run #F	21	208.0	208.0
8	1900 Blk Conrad St - Run #G	21	59.0	59.0
8	2400 Blk Wood St - Run #H	8	242.4	242.4
8	2400 Blk Wood St - Run #I	8	247.2	247.2
8	6900 Patterson Ave	8	64	
9	1200 Blk Broad Roack Blvd. - Run #1	10	261.9	261.9
9	1200 Blk Broad Roack Blvd. - Run #2	10	274.0	274.0
9	1200 Blk Broad Roack Blvd. - Run #3	10	173.2	173.2
9	1200 Blk Broad Roack Blvd. - Run #4	10	304.5	304.5
9	1400 Blk Broad Roack Blvd. - Run #5	10	222.9	222.9
9	1400 Blk Broad Roack Blvd. - Run #6	10	225.8	225.8
9	1400 Blk Broad Roack Blvd. - Run #7	10	308.0	308.0
10	2900 Blk Broad Roack Blvd. - Run #26	8	202.8	202.8
11	1500 Hilden Rd	8		350
11	4300 Blk N. Ashlawn	8	284	284
14	1603 Albany Ave	8	14	
14	1603 Albany Ave	8		150
14	2900 Blk Broad Roack Blvd. - Run #26	10	202.8	202.8
14	2900 Blk Broad Roack Blvd. - Run #27	10	260.0	260.0
14	2900 Blk Broad Roack Blvd. - Run #28	10	230.0	230.0
14	3000 Blk Broad Roack Blvd. - Run #29	10	249.0	249.0
14	3000 Blk Broad Roack Blvd. - Run #30	10	338.7	338.7
14	3100 Blk Broad Roack Blvd. - Run #31	10	322.5	322.5
14	3200 Blk Broad Roack Blvd. - Run #32	10	273.0	273.0
14	3200 Blk Broad Roack Blvd. - Run #32A	10	95.0	95.0
14	3200 Blk Broad Roack Blvd. - Run #33	10	368.0	368.0
14	3300 Blk Broad Roack Blvd. - Run #34	10	300.0	300.0
14	Oak Glen St.	8		555
15	2500 Blk Lanewood Dr - Run #B	8	349.0	349.0
15	2500 Blk Lanewood Dr - Run #C	8	342.0	342.0
15	2500 Blk Lanewood Dr - Run #A	8	319.0	319.0
15	700 Blk E. Broad	12	373	373
17	1400 Blk Broad Roack Blvd. - Run #8	10	271.0	271.0
17	1700 Blk Broad Rock Blvd. - Run #9	10	28.0	28.0
17	2400 Blk Broad Rock Blvd. - Run #19	8	237.4	237.4

YEAR: 2008

MONTH: April

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVIEWED	CLEANED
17	6500 Midlothian TnPk	10		1120
17	Oak Glen St.	8		280
18	6300 Blk Midlothian TnPk	10		80
21	1411 Willis St	8		450
21	2200 Blk Broad Rock Blvd. - Run #18	8	244.0	244.0
21	2200 Blk Broad Rock Blvd. - Run #18A	8	329.0	329.0
22	3922 W Franklin St	8	9	
23	2000 Blk E. Broad St - Run #A	18	35.0	35.0
23	2000 Blk E. Broad St - Run #B	18x30	25.0	25.0
23	3502 1st Ave	8	86	
23	3808 Montrose Ave	8	113	
24	2517 Brainbridge St	8	56	
24	2600 Blk Barton Ave. - Run #1	15	30	30
24	2600 Blk Barton Ave. - Run #2	15	329	329
24	2600 Blk Barton Ave. - Run #3	30	141.1	141.1
24	2600 Blk Barton Ave. - Run #4	30	129.7	129.7
24	2600 Blk Barton Ave. - Run #5	24	28.3	28.3
24	2600 Blk Barton Ave. - Run #6	24	107.8	107.8
24	2600 Blk Barton Ave. - Run #7	8	144	144
24	3400 Montross Ave.	8		10
24	5937 Wainright	8		270
24	613 W 21st	8	19	
24	827 Blandy Ave	8		300
25	2000 Blk Broad Roack Blvd. - Run #16	8	189.4	189.4
25	2000 Blk Broad Roack Blvd. - Run #16A	8	360.7	360.7
25	2100 Blk Broad Roack Blvd. - Run #17A	8	209.9	209.9
25	2100 Blk Broad Rock Blvd. - Run #17	8	199.8	199.8
28	2517 Chamberlayne Ave.	12		127
28	2611 Brook Rd	6		20
28	2907 Chamberlyane Ave	8		200
30	00 Blk Catherine St - Run #D	16x24	136	136
30	00 Blk Clay St - Run #C	16x24	140.5	140.5
30	4014 St. Andrews Ln.	8		10

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: May

City TV & Clean
Contractor TV & Clean

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
1	600 Blk Leigh St.	16x24	137	137
1	600 Blk Marshall St	14x21	86.5	86.5
2	400 Blk Hunt Ave - Run A	8	80	80
2	400 Blk Hunt Ave - Run B	8	25	25
3	2003 Barton Ave	6		60
4	733 W Cary St	8		350
5	2000 Blk Broad Rock Blvd. - Run 15	8	299.6	299.6
5	2000 Blk Broad Rock Blvd. - Run 14	8	354.5	354.5
5	1900 Blk Broad Rock Blvd. - Run 13	8	304	304
5	1900 Blk Broad Rock Blvd. - Run 12	8	358	358
6	108 S 15th St	12		250
6	3805 Kensington Ave	8	56	
6	1800 Blk Broad Rock Blvd. - Run 11	8	107	107
6	1700 Blk Broad Rock Blvd. - Run 10	8	171	171
6	2700 Blk Broad Rock Blvd. - Run 23	8	255	255
6	2800 Blk Broad Rock Blvd. - Run 24	8	163	163
7	2919 Chamberlayne Ave.	12		57
7	2200 Hildreth St	12		20
7	125 S Cherry St	4	2	
7	3922 W Franklin St	8	44	
8	2800 Rich Henrico Tnpk	12		220
8	2919 Chamberlayne Ave.	12		110
8	Richmond Henrico Tpk	8	34	
8	4220 Chamberlayne Ave	12	132	
12	1212 N.37Th St	12		554
12	1212 N. 37th St	12		250
13	4011 Patterson Ave.	8		308
13	23rd & Cary St	8		200
13	1631 Commerce Rd	12	202	
13	800 Blk Idlewood - Run 1	12	15	0
13	700 Blk Idlewood - Run 2	15	235.7	235.7
13	700 Blk Idlewood - Run 3	16x24	125.7	125.7
13	600 Blk Idlewood - Run 4	16x24	182.7	182.7
13	500 Blk Idlewood - Run 5	16x24	146.9	146.9
14	1200 Juniper St	8	28	
14	900 Blk Idlewood - Run 6	12	180	180
14	1100 Blk Idlewood - Run 7	42x42	208.2	208.2
14	1100 Blk Idlewood - Run 8	42x42	138.9	138.9
14	1100 Blk Idlewood - Run 8A	42x42	35.13	35.1
14	1100 Blk Idlewood - Run 9	42x42	227.6	227.6
14	1100 Blk Idlewood - Run 10	42x42	178.1	
14	1100 Blk Idlewood - Run 11	63	146.5	
14	1100 Blk Idlewood - Run 12	12	308.9	308.9
14	1100 Blk Idlewood - Run 13	12	20.3	20.3
15	2237 Venable St.	12		354
16	1625 West Brook Rd	10		225
19	Waste Water Treatment Plant	12		993
20	Holly Spring Rd	12		300
20	Waste Water Treatment Plant	12		1110
21	801 Saint Chirstopher St	8	98	
22	1700 Blk St. James St -Run C	24	240.3	240.3
22	2200 Blk Bryan Park Ave.	8	177	177
22	1700 Blk Rose St. - Run A	12	105.1	105.1
22	1700 Blk Rose St. - Run B	12	232.8	232.8
22	010 Blk Fells St - Run F	12	230.7	230.7
23	1212 N 37th St	12		1218
23	010 Blk King St. - Run E	12	262	262
27	301 Dundee Ave.	8		555

YEAR: 2008

MONTH: MayCity TV & Clean
Contractor TV & Clean

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVIEWED	CLEANED
27	1200 Blk N.37Th St	10		64
27	1600 Blk St. James St - Run D	12	350.5	350.5
27	010 Blk Fells St - Run G	12	32.5	32.5
28	3800 BLK Montrose Ave.	8		75
28	301 Dundee Ave.	8		556
28	3163 Hull St	8	47	
29	1127 Sumpter St	12	359	
30	500 Gladstone Ave	8	365.1	365.1
30	3100 Richmond Henrico Tpk	12	293	293

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: June

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
2	3500 Blk Cary St. - Run #2	12	47.37	47.37
2	3500 Blk Cary St. - Run #3	12	98.89	98.89
2	3500 Blk Cary St. - Run #4	12	294.78	294.78
2	3500 Blk Cary St. - Run #5	12	17.67	17.67
2	3500 Blk Cary St. - Run #6	12	40.46	40.46
2	209 N Shields St	6	73	
3	3400 Blk Cary St. - Run #7	12	273.76	273.76
3	3400 Blk Cary St. - Run #8	12	176.16	176.16
3	3400 Blk Cary St. - Run #9	12	427.32	427.32
3	3400 Blk Cary St. - Run #9A	12	94.44	94.44
3	3400 Blk Cary St. - Run #9B	12	21.06	21.06
3	3300 Blk Cary St. - Run #10	18	205.27	205.27
3	3300 Blk Cary St. - Run #11	18	215.05	215.05
3	3200 Blk Cary St. - Run #12	20x30	217.7	217.7
4	3200 Blk Cary St. - Run #13	20x30	165.1	165.1
4	2800 Blk Cary St. - Run #24	24	170.9	170.9
5	3200 Blk Cary St. - Run #14	20x30	48.55	48.55
5	3100 Blk Cary St. - Run #15	20x30	94.25	94.25
5	3100 Blk Cary St. - Run #16	24x36	75.69	75.69
5	3000 Blk Cary St. - Run #19	24x36	176.85	176.85
5	3000 Blk Cary St. - Run #20	24x36	206.26	206.26
5	3000 Blk Cary St. - Run #21	24x36	46.48	46.48
5	3000 Blk Cary St. - Run #22	24x36	81.04	81.04
5	3000 Blk Cary St. - Run #23	24x36	27.8	27.8
5	1405 Claremont Ave.	12		228
6	1237 N 37th St	12	639	
10	River Rd & Huguenot Rd	6	48	
10	2202 W Grace St	12	414	
10	2202 Northumberland St	6	45	
11	300 blk Essex - Run #A	15	315.7	288
11	200 Blk Essex - Run #B	15	180.3	350
11	Overlook & Chestmere Rd	12	395	
12	532 N21 St	12	24	
12	Holly Springs & Maury St	8		124
13	948 Kingsway Dr	6	24	
16	Huguenot Rd & Riverside Dr	12	203	
17	1205 Highland View	12	466	
17	5720 Patterson Ave	6	95	
18	3318 West Cary St	6	30	
20	3318 West Cary St	6		8
20	1400 Brander St	12		1110
20	#6 Davis St	12		78
20	1225 Stanhope Ave	12		220
20	1715 Labumum Ave	12		75
23	208 Hillwood Ave	8	268	
23	1212 N.37th St	12		1218
24	010 blk 12th St - Run #A	12	124.2	124.2
24	010 blk 12th St - Run #B	12	136.2	
24	1200 blk Alley between Main & Cary	36x36	179.2	
24	1204 Idlewood Ave	6	11	10
24	00 Yancey St	10		270
25	1500 Roane ST	10		210
27	8200 Riverside Dr	8		35
30	3100 Blk Cary St. - Run #17	24x36	315	315
30	3100 Blk Cary St. - Run #18	24x36	247.5	247.5
30	614 N 25th	6	18	

YEAR: 2008

MONTH: June

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
30	3300 Logan Dale	12		270
10	Easement Between Napoleon and Alpine	24	214	214
27	700 Cragie	6	37	37
12	3000 Alpine Ave	12	98.9	98.9
10	3000 Alpine Ave	24	366.9	366.9
12	3000 Alpine Ave	30	294.6	294.6
12	Alpine Ave & Brookland Park Blvd	30	40.9	40.9
27	700 Cragie	6	142	142
13	3000 Fletcher Ave	12	469.8	469.8
13	3000 Fletcher Ave	15	354.9	354.9
12	700 Cragie Ave	12	170	170
27	700 Cragie	6	39	39
27	700 Groveland Ave	12	461.7	461.7
27	700 Cragie	6	17	17
27	700 Cragie	6	42	42
16	3100 Woodcliff Ave	12	106.1	106.1
16	3100 Woodcliff Ave	12	202.5	202.5
18	3100 Woodcliff Ave	15	175.8	175.8
19	3000 Woodcliff Ave	20	179.8	179.8
19	3000 Woodcliff Ave	24	136.6	136.6
18	1200 Giles Ave	12	351.4	351.4
18	1100 Highlandview Ave	12	107.1	107.1
19	1200 Highlandview Ave	12	456.9	456.9
19	1200 Newberry Ave	12	106.3	106.3
20	3100 Meadow Bridge Road	12	89.9	89.9
23	3000 Meadow Bridge Road	12	389.9	389.9
20	300 Meadow Bridge Road	12	168.9	168.9
23	3100 Meadow Bridge Road	12	217	217
23	3100 Meadow Bridge Road	12	172	172
23	3000 Meadow Bridge Road	12	209.6	209.6
24	600 Alley btwn Gladstone Ave and Northside Ave	10	510.2	510.2
24	Meadow Bridge Road @ Gladstone	12	127.4	127.4
25	Meadow Bridge Road @ Northside	12	112.1	112.1
25	Meadow Bridge Road @ Northside	12	27.2	27.2
2	Wellington St. btwn Northside and Gladstone	15	270.1	270.1
2	Wellington St. @ Northside	15	31.4	31.4
2	Northside Ave @ Wellington	8	54	54
2	500 Northside Ave	24	402.1	402.1
2	Richmond-Henrico Tpk @ Northside	30	23.9	23.9
30	Richmond Henrico Tpk at Northside	12	15	15
30	600 Blk Alley Btw Arnold and Northside	6	93	93
3	Alley btwn Arnold Ave and Northside Ave	12	248.8	248.8
3	Napoleon St @ Arnold	15	147	147
3	Napoleon St @ Arnold	15	133.8	133.8
4	600 Arnold Ave	12	347	347
5	500 Arnold Ave	8	294	294
5	500 Arnold Ave	8	228.5	228.5
9	3100 Napoleon St	24	252.3	252.3
9	600 Cragie Ave	12	28.1	28.1
9	600 Cragie Ave	12	283.8	283.8
9	3100 Napoleon St	36	328.9	328.9
9	Napoleon St @ Montvale	36	36.2	36.2
10	600 Montvale Ave	36	326.7	326.7
10	500 Montvale Ave	36	411.3	411.3
10	500 Montvale Ave	30	171.7	171.7
6	500 Cragie Ave	8	405	405
6	500 Cragie Ave	8	137.2	137.2
2	400 Gladstone Ave	8	31.8	31.8
2	400 Gladstone Ave	8	195	195
2	400 Gladstone Ave	8	46.3	46.3
16	3100 Woodcliff Ave	12	202.5	202.5
18	3100 Woodcliff Ave	15	175.8	175.8
19	3000 Woodcliff Ave	20	179.8	179.8
19	3000 Woodcliff Ave	24	136.6	136.6
18	1200 Giles Ave	12	351.4	351.4
18	1100 Highlandview Ave	12	107.1	107.1
19	1200 Highlandview Ave	12	456.9	456.9
19	1200 Newberry Ave	12	106.3	106.3

YEAR: 2008

MONTH: June

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
20	3100 Meadow Bridge Road	12	89.9	89.9
23	3000 Meadow Bridge Road	12	389.9	389.9
20	300 Meadow Bridge Road	12	168.9	168.9
23	3100 Meadow Bridge Road	12	217	217
23	3100 Meadow Bridge Road	12	172	172
23	3000 Meadow Bridge Road	12	209.6	209.6
24	600 Alley btwn Gladstone Ave and Northside Ave	10	510.2	510.2
24	Meadow Bridge Road @ Gladstone	12	127.4	127.4
25	Meadow Bridge Road @ Northside	12	112.1	112.1
25	Meadow Bridge Road @ Northside	12	27.2	27.2
2	Wellington St. btwn Northside and Gladstone	15	270.1	270.1
2	Wellington St. @ Northside	15	31.4	31.4
2	Northside Ave @ Wellington	8	54	54
2	500 Northside Ave	24	402.1	402.1
2	Richmond-Henrico Tpk @ Northside	30	23.9	23.9
30	Richmond Henrico Tpk at Northside	12	15	15
30	600 Blk Alley Btw Arnold and Northside	6	93	93
30	Alley btwn Arnold Ave and Northside Ave	6	60.5	61
3	Alley btwn Arnold Ave and Northside Ave	12	248.8	248.8
3	Napoleon St @ Arnold	15	147	147
3	Napoleon St @ Arnold	15	133.8	133.8
4	600 Arnold Ave	12	347	347
5	500 Arnold Ave	8	294	294
5	500 Arnold Ave	8	228.5	228.5
9	3100 Napoleon St	24	252.3	252.3
9	600 Cragie Ave	12	28.1	28.1
9	600 Cragie Ave	12	283.8	283.8
9	3100 Napoleon St	36	328.9	328.9
9	Napoleon St @ Montvale	36	36.2	36.2
10	600 Montvale Ave	36	326.7	326.7
10	500 Montvale Ave	36	411.3	411.3
10	500 Montvale Ave	30	171.7	171.7
6	500 Cragie Ave	8	405	405
6	500 Cragie Ave	8	137.2	137.2
2	400 Gladstone Ave	8	31.8	31.8
2	400 Gladstone Ave	8	195	195
2	400 Gladstone Ave	8	46.3	46.3

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: August

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
1	LS-36 Alley between Garland/Hanes	8	269	269
1	LS-36-A Alley between Garland/Hanes	8	338	338
1	37A / 4900 /Alley S.E. of Augusta	10"	47	47
1	37 / 4900 /Alley S.E. of Augusta	12"	86	86
1	22 / 1900 / Chantilly	15"	301	301
1	23 / 1900 / Chantilly	15"	115	115
1	24 / 1900 / Chantilly	15"	28	28
1	36 / 1600 / Staples Mill Rd.	15"	204	204
1	38 / 1600 / Staples Mill Rd.	15"	124	124
1	41/ 1800 / Staples Mill Rd.	15"	318	318
1	42 / 1800 / Staples Mill Rd.	15"	60	60
1	39 / 1700 / Staples Mill Rd.	18"	333	333
1	40 / 1700 / Staples Mill Rd.	18"	393	393
1	3133 Monument Dr	6	17	
1	2800 E. CLAY STREET	8		138
1	Chantilly btw Radford & Broad	15"	302	302
1	Chantilly btw Radford & Broad	15"	115	115
1	Chantilly at Broad	15"	28	28
1	Staples Mill Rd btw Cutshaw & Alley	15"	204	204
1	Alley btw Cutshaw & Augusta	12"	86	86
1	Alley btw Cutshaw & Augusta	12"	47	47
1	Staples Mill Rd btw Cutshaw & Augusta	15"	124	124
1	Staples Mill Rd btw Cutshaw & Augusta	18"	333	333
1	Staples Mill Rd btw Cutshaw & Augusta	18"	60	60
1	Staples Mill Rd btw Fitzhugh & Radford	15"	318	318
1	Staples Mill at Fitzhugh	15"	60	60
4	LS-32 Alley between Garland/Hanes	6	365	365
4	LS-33 Alley between Garland/Hanes	6	665	665
4	LS-23 Libbie Ave MH 5+35 - 8+20	8	281	281
4	LS-24 Libbie Ave. MH 2+63.5 - 5+35	8	303	303
4	33 / 4800 / Broad St.	12"	276	276
4	34 / 4800 / Broad St.	12"	273	273
4	43 / 4800 / Fitzhugh Ave.	24"	550	550
4	44 / 4800 / Fitzhugh Ave	24"	26	26
4	45 / 1800 / Chantilly St	54"	259	259
4	46 / 1900 / Chantilly St	54"	454	454
4	47/ 4800 / Broad St.	60"	95	95
4	3804 Sulgrave Rd	6	85	
4	4900 Blk New Kent Rd	8	305.54	
4	4800 Broad St	12"	276	276
4	4800 Broad St	12"	274	274
4	Staples Mill btw Augusta & Fitzhugh	24"	550	550
4	4800 Fitzhugh Ave	24"	26	26
4	Chantilly btw Fitzhugh & Radford	54"	259	259
4	Chantilly btw Radford & Broad	54"	454	454
4	Chantilly at Broad	60"	95	95
5	LS-50 Meadowbridge	18	187	187
5	LS-13 Brookland Park	24	355	355
5	LS-14 Brookland Park	24	341	341
5	27 / 1900 / Staples Mill	12"	70	70
5	29 / 1900 / Staples Mill	12"	205	205
5	35 / 4800 / Broad St	12"	274	274
5	26 / 1900 / Staples Mill	12"	47	47
5	30 / 4900 / Broad St	15"	186	186
5	1820 Park Ave	6	60	
5	900 Blk Stockton	6	43	
5	Staples Mill Rd near alley	12"	47	47
5	Staples Mill Rd At Capitol	12"	70	70
5	4900 Broad St	15"	186	186

YEAR: 2008

MONTH: August

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
5	4800 Broad St	12"	275	275
6	LS-13 Brookland Park	24	355	
6	LS-14 Brookland Park	24	341	
6	LS-22 Libbie Ave. MH 8+20 - 0+00	8	278	278
6	LS-63 Alley between Edgewood/Fendall	8		400
6	2 / 4800 / Monument Ave	12"	307	307
6	25 / 4800 / Broad St	12"	78	78
6	29 / 1900 / Broad St	12"	208	208
6	28 / 4900 / Capital Ave	8"	363	363
6	31 / 4800 / Broad St	15"	318	318
6	32 / 4800 / Broad St	15"	322	322
6	3800 Blk Cutshaw	12	75	
6	1601 Boston	8	62	
6	Chantilly at Broad	12"	78	78
6	4900 Capitol Ave	8"	363	363
6	Staples Mill Rd btw Capitol and Broad	12"	208	208
6	4800 Broad St	15"	318	318
6	4800 Broad St	15"	322	322
7	LS-60B Crawford Street	8	22	22
7	LS-66-A Alley between Fendall/Hanes	10	438	
7	LS-32 Barton	36	509	509
7	LS-33 Barton	36	42	42
7	LS-63 Alley between Edgewood/Fendall	8	400	400
7	1000 Blk W. Marshall	12	197.38	
8	LS-63 Alley between Edgewood/Fendall	8	400	
8	LS-27 Alley between Lamb/Barton	10	665.5	665.5
8	LS-32/33	36	551	551
8	LS-27 Alley between Lamb/Barton	10	665.5	665.5
8	1700 blk E. Main	36x24	85	
11	LS-25 Alley between North/Garland	8	252	252
11	LS-1-A Crawford Ave	8	528	528
12	Alley between Barton/North	8	282	282
12	LS-27/28 Alley between Lamb/Barton	10	710	710
12	65 / 4200 / Patterson Ave	8	340	340
12	LS-36 Alley between Garland/Hanes	8	272	272
12	LS-29 Alley between Lamb/Barton	8	486.9	486.9
13	100 N Roland	6	15	
13	211 S. Wilton	8	60	
13	13TH & CARY STREET	8		100
13	LS-25 Alley between North/Garland	8	252	252
14	900 BLK REGISTER PKY.	8		75
14	PATTERSON & THREE CHOPT.	8		200
14	OAK GLEN STREET	8		643
14	6800 MIDLOTHIAN TPK	8		643
14	LS-1-A Crawford Ave	8	528	528
15	LS-36 Alley between Garland/Hanes	8	272	272
15	13TH & CARY STREET	8		300
18	LS-44 Alley off Meadowbridge	18	420	420
18	LS-17 Alley between North/Garland	6	17	17
18	6400 BLK MIDLOTHIAN TPK.	8		250
19	32 E. 31ST STREET	10		220
19	LS-18 Alley between North/Garland	8	304	304
19	23RD & BROAD STREET	8		250
19	1116 W. MARSHALL ST	8		400
19	6500 BLK MIDLOTHIAN TPK.	8		700
20	LABURNUM AVE & BROOK RD	8		529
20	LS-45 Alley between Fendall/Hanes	10	699	699
20	Meadowbridge @ Brookland Park	60	450	450
20	614 N. 37th St	6	17	
20	6427 Glyndon Dr.	6	78	
20	2300 E. Grace St	12	24.9	

YEAR: 2008

MONTH: August

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
20	23RD & FRANKLIN STREET	8		177
20	200 BLK GUN CLUB RD.	8		600
20	LS-18 Alley between North/Garland	8	304	304
21	LS-45 Alley between Fendall/Hanes	10	699	699
21	LS-17 Alley between North/Garland	6	18	18
21	LS-19A Brookland Park	24	55	55
21	010 blk E. Broad St Run A	12	247.5	247.5
21	010 blk E. Broad St Run C	122	352.6	352.6
21	010 blk E. Broad St Run D	15	289.1	289.1
21	4405 Newport Dr	8	166.1	
22	5th & Grace	8	17	
25	010 blk E. Broad St Run B	15	328.4	328.4
25	800 blk E. Broad St Run E	15	295.6	295.6
25	800 blk E. Broad St Run F	15	285.3	285.3
25	700 blk E. Broad St Run H	12	164.4	164.4
25	800 blk E. Broad St Run I	15	239.5	239.5
26	1200 blk E. Broad St Run L	18X18	26.8	26.8
26	1300 blk E. Broad St Run M	24	110	110
27	103 Gun Club Dr.	6	93	
27	4405 Newport Dr	6	22	
27	1116 W. Marshall	6	99.2	
28	1100 blk E. Broad St Run K	18	222.1	222.1
28	1200 blk E. Main St Run A	42X58	244.5	
28	1200 blk E. Main St Run C	36X48	232.5	
28	1200 blk E. Main St Run B	12	110	

CITY OF RICHMOND, VIRGINIA
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MONTHLY
SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: September

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
2	1300 Blk Broad St - Run N	8	45.8	45.8
2	1700 Blk Broad St - Run B	12	10.4	
2	1700 Blk Broad St - Run C	12	131.6	131.6
2	900 Blk Broad St - Run J	12	171.5	171.5
2	137 S Cherry St	6	23	
2	4505 Seminary Ave	6	8	
2	1700 Blk Broad St	12	155	
2	1300 Blk Broad St - Run O	24	53.5	53.5
2	1400 Blk Broad St. - Run P	24	28.7	58.7
2	1400 Blk Broad St. - Run Q	24	20.0	20.0
2	1400 Blk Broad St. - Run R	24	114.3	114.3
2	1300 Blk Broad St - Run O-A	24	5.0	5.0
2	1300 Blk Broad St - Run O-B	24	190.9	190.9
2	1700 Blk Broad St - Run A	20x30	263.7	263.7
3	800 Blk Broad St- Run G	15	55	55.0
4	4704 W Franklin St	6	31	
4	3309 Barton Ave	6	89	
4	5400 Matoaka Rd	6	81	
5	241 Plazaview Rd	6	45	
5	800 Henti Rd.	8		250
8	2714 Grantwood Ct	6	27	
9	351 Belt Blvd.	6	277	
10	1700 Everett St	8	19	
11	23 W Brook land Park way	6	117	
11	1506 Blair St	6	17	
11	402 N. Harrison	6	10	
15	201 N Sheilds St	6	22	
15	4th Ave. & Brookland Park	8		458
16	1800 Greenvale Ct	8	87	
16	3905 Wythe Ave	12	401	
17	6000 Blk Grove Ave - Run 1	8	100.7	100.7
17	5900 Blk Grove Ave - Run 2	8	338.5	338.5
17	411 N. Harrison St	12	425.0	425.0
17	3112 Carolina Ave	6	64	
17	5601 Midlothain Tpk	6	25	
17	1200 Blk Main St	42	266.0	
18	5800 Blk Grove Ave - Run 3	8	351.2	351.2
18	5700 Blk Grove Ave - Run 4	8	197.5	197.5
18	7630 Idlewyld Rd	6	67	
18	1233 Hioaks Rd	8	551	
18	4210 Park Ave	12	190	
19	5700 Blk Grove Ave - Run 5	8	188.7	188.7
19	5700 Blk Grove Ave - Run 6	8	276.8	276.8
19	5600 Blk Grove Ave - Run 7	8	257.8	257.8
19	5600 Blk Grove Ave - Run 8	8	210.3	210.3
22	5400 Blk Grove Ave. - Run 12	15	223.9	223.9
22	5400 Blk Grove Ave. - Run 13	15	211.2	221.2
22	1000 W Clay St	6	22	
22	5000 Blk Grove Ave. - Run 23	18	558.8	
22	5600 Blk Grove Ave. - Run 14	21	275.6	
22	5600 Blk Grove Ave. - Run 15	24	62.7	
22	5500 Blk Grove Ave. - Run 16	24	59.4	
22	5500 Blk Grove Ave. - Run 17	24	81.2	
22	5500 Blk Grove Ave. - Run 18	27	47.4	
22	4900 Blk Grove Ave. - Run 24	36	307.3	
23	5500 Blk Grove Ave - Run 9	8	336.5	336.5

YEAR: 2008

MONTH: September

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
23	300 Blk Libbie	8	365.0	365.0
23	5500 Blk Grove Ave - Run 10	8	330.7	330.7
23	5400 Blk Grove Ave. - Run 11	8	353.1	353.1
23	900 Blk Grace St - Run 3	12	357.5	357.5
23	902 Greenway lane	6	23	
23	7708 Mariela Rd.	8		420.0
23	900 Blk Grace St - Run 4	16x24	32.0	32.0
24	1200 Main St	12	176.1	
24	1200 Main St	12	42.1	
24	5925 Bliley Rd	6	75	
24	8928 Cherokee Rd	6	101	
24	12th & Main St	12	54	
24	5400 Matoaka & Granite	24		81.0
24	819 Kinney St	24		360.0
25	2700 Walmsley Blvd	6	113	
25	5400 Blk Grove Ave. - Run 20	36	218.6	
25	5300 Blk Grove Ave. - Run 21	36	422.1	
25	5300 Blk Grove Ave. - Run 22	36	42.4	
25	5400 Blk Grove Ave. - Run 18A	42	41.0	
25	5400 Blk Grove Ave. - Run 19	42	174.6	
26	900 Blk Grace St - Run 5	16x24	119.1	119.1
29	1400 Cary St In the alley	12	207.0	
29	3104 Foresthill Ave	6	70	
29	800 Blk Grace St - Run 6	16x24	572.0	572.0
30	1000 Blk Grace St - Run 2	16x24	249.5	249.5

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SEWER TV/CLEANING REPORT

YEAR: 2008

MONTH: October

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
3	5700 Blk Patterson	6	70.0	70.0
21	# 13 EAST LEIGH STREET	6		20
23	010 Blk Roslyn Rd.	6	126	126
27	300 Blk Oak La	6	365	365
28	5100 Blk Straford Cir.	6	199	199
22	25 / 600 / Alley Behind Gladstone	6	99	99
23	16 / 3300 / Wellington	6	63	63
23	24 / 700 / Alley Behind Gladstone	6	170	170
23	28 / 600 / Pollock	6	48	48
24	18 / 700 / Alley Behind Bancroft	6	100	100
24	19 / 600 / Alley Behind Bancroft	6	249	249
24	19A / 600 / Alley Behind Bancroft	6	92	92
1	2907 CHAMBERLAYNE AVE.	8		120
3	200 VIRGINIA AVE.	8		600
3	5700 Blk Patterson	8	265.0	265.0
6	1400 BLK OVERLOOK ST	8		429
6	5600 Blk Patterson	8	360	360
6	5600 Blk Patterson	8	18.0	18.0
6	5500 Blk Patterson	8	87.0	87.0
6	5500 Blk Patterson	8	138	138
8	1000 W.46TH STREET	8		610
8	2412 HAWTHORNE AVE.	8		562
8	5400 Blk Patterson	8	239	239
8	5300 Blk Patterson	8	45	45
8	5300 Blk Patterson	8	317	317
9	1800 BOTETOURT ST	8		89
13	SWANEE & HATHAWAY	8		50
13	200 VIRGINIA AVE.	8		315
21	5100 Blk Straford Cir.	8	246.0	246.0
21	010 Blk Greenway	8	166	166
21	010 Blk Greenway	8	169	169
21	010 Blk Greenway	8	28.0	28.0
22	FOREST HILL & HATHAWAY	8		40
22	1500 Blk Harlan Cr	8	227	227
23	010 Blk Oak La.	8	37	37
23	010 Blk Oak La.	8	29	29
24	300 Blk Tuckahoe	8	82	82
27	010 Blk Oak La.	8	388	388
1	LS-19 Alley between 3300 Block of Garland & North	8	206.5	206.5
1	LS-20 Alley between 3300 Block of Garland & North	8	101.8	101.8
29	LS-K1 Jefferson Street	8	100	100
16	2 / 600 / Hazelhurst	8	321	321
16	20 / 3220 / Wellington	8	130	130
20	22 / 500 / Bancroft	8	375	375
21	27 / 500 / Gladstone	8	371	371
22	14 / 500 / Pollock	8	293	293
23	29 / 600 / Pollock	8	20	20
29	13 / 1700 / Milton	8	181	181
30	23 / 3300 / Alley Btw. Maryland and Carolina	8	198	198
31	2 / 3300 / Alley btw Missouri and Flolida	8	349	349
9	4208 CHAMBERLAYNE AVE	10		400
2	LS-36A Alley between 2900 Block of Garland & Hanes	10	340	340
7	LS-45A Alley between 3200 Block of Fendall & Hanes	10	500	500

YEAR: 2008

MONTH: October

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
7	LS-3 200 - 300 Block of Brookland Park	10	169	169
30	6 / 3300 / Alley Btw. Maryland and Carolina	10	323	323
30	63 / 3200 / Alley Maryland	10	73	73
31	3 / 3300 / Alley btw Florida and Delaware	10	244	244
7	1200 E. Main St	12	10	
10	E.NINE MILE & 29TH	12		262
13	700 E. Broad St	12	20	20
20	#13 W. LEIGH STREET	12		131
21	300 Blk Oak La	12	50	50
23	# 13 LEIGH ST	12		100
24	Grove & Tuckahoe	12	46	46
24	Grove & Tuckahoe	12	10	10
27	2415 COLES STREET	12		360
29	300 Blk Oak La	12	42	42
9	LS-F1 25 Block of East Main Street	12	253.5	253.5
21	LS-B3 200 Block Madison between Grace & Broad	12	318	318
23	LS-D3 100 Block of Jefferson Street	12	130	130
20	23 / 3200 / Wellington	12	138	138
20	26 / 3200 / Wellinton	12	168	168
20	5 / 500 / Hazelhurst	12	24	24
21	6 / 3300 / Rich. Henrico Tpke	12	291	291
21	7 / 3300 / Rich. Henrico Tpke	12	23	23
21	8 / 3300 / Rich. Henrico Tpke	12	287	287
21	9 / 3300 / Rich. Henri	12	25	25
31	109 / 3300 / 3rd ST	12	43	43
9	5600 Blk Patterson	15	202	202
9	5500 Blk Patterson	15	131	131
9	5400 Blk Patterson	15	36	36
9	5400 Blk Patterson	15	197	
20	010 Blk Greenway	15	142	142
20	010 Blk Greenway	15	86	86
24	5200 Blk Grove	15	223	223
28	LS-A1 1 W. Broad Street	15	304	304
16	3 / 500 / Hazelhurst	15	21	21
16	4 / 3300 / Wellington	15	360	360
21	11 / 3300 / Rich. Henrico Tpke	15	160	160
21	12 / 3150 / Rich. Henrico Tpke	15	160	160
21	13 / 3150 / Rich. Henrico Tpke	15	158	158
22	10 / 3200 / Rich. Henrico Tpke	15	175	175
27	5 / 3300 / Maryland	15	310	310
30	107/ ? / Enslow	15	35	35
31	106 / ? / Pollock	15	86	86
9	5400 Blk Patterson	18	361	361
21	300 Blk Oak La	18	53	53
22	300 Blk Roslyn Rd	18	300	300
22	300 Blk Roslyn Rd	18	141	141
22	300 Blk Roslyn Rd	18	340	340
22	300 Blk Roslyn Rd	18	20	20
29	300 Blk Oak La	18	409	409
30	14 / 1600 / Milton	18	183	183
28	20 / 1600 / Pollock	20	155	155
20	5100 Blk Straford Cir.	21	250	250
27	22 / 3300 / Maryland	24	194	194
28	65 / 3200 / Maryland	24	40	40
28	66 / 3200 / Maryland	24	283	283
28	67 / 3100 / Maryland	24	280	280
28	99 / 3000 / Maryland	24	17	17
30	15 / 1600 / Milton	24	179	179
10	5300 Blk Patterson	27	127	
10	5300 Blk Patterson	27	381	
10	5300 Blk Patterson	27	128	

YEAR: 2008

MONTH: October

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
30	16 / 1500 / Milton	27	200	200
30	8 / 3300 / 1st ST	27	257	257
10	5300 Blk Patterson	30	50	
24	Grove & Tuckahoe	30	27	27
27	68 / 3200 / Maryland	30	260	260
27	69 / 3200 / Maryland	30	246	246
28	70 / 3100 / Maryland	30	93	93
28	71 / 3100 / Maryland	30	62	62
28	119 / 3000 / Maryland	30	24	24
28	21 / 1600 / Pollock	30	187	187
30	24 / 3300 / 1st ST	33	270	270
31	25 / 1500 / Pollock	33	340	340
31	26 / 3300 2nd ST	36	42	42
24	Grove & Tuckahoe	42	33	33
21	M.H. # 33 to M.H. # 29	48	1646	
23	300 Blk Tuckahoe	54	595	595
24	Grove & Tuckahoe	54	65	65
22	M.H. # 3 to M.H. # 4 / M.H. #7 to M.H. # 10	72	2850	
23	M.H. # 10 to M.H. # 11	72	1200	
24	M.H. # 4 to M.H. # 7	72	1938	

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MONTHLY
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YEAR: 2008

MONTH: November

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
3	3300 blk Alley Btw Delaware and Maryland	8	481	481
3	3300 blk Alley Btw 2nd and 3rd	8	446	446
3	3200 blk Alley Btw 2nd and 3rd	8	127	127
3	3300 blk Alley Btw Florida and Delaware	10	331	331
3	3300 blk Alley Btw Missouri and Florida	12	27	27
3	3400 blk Alley Btw 2nd and 3rd	12	80	80
3	1200 blk 33rd & S Street	18	399.6	
3	1500 blk Pollock St.	24	183	183
3	1500 blk Pollock St.	24	181	181
3	BROOKLINE ST	8		530
4	3100 blk Utah Pl	8	225	225
4	1500 blk Pollock St.	8	175	175
4	3300 blk 3rd Ave.	8	119	119
4	3300 blk Utah Pl	12	316	316
4	3200 blk Utah Pl	12	274	274
4	1400 blk Milton St.	12	364	364
5	3200 blk Alley Btw Carolina and Enslow	8	464	464
5	4800 blk Shadwell Avenue	8	70.1	70.1
5	4800 blk Shadwell Avenue	8	132.8	132.8
5	4800 blk Shadwell Avenue	8	21.9	21.9
5	4800 blk Shadwell Avenue	8	19.6	19.6
5	4900 blk Clarke Road	8	193.6	193.6
5	4900 blk Clarke Road	8	251.5	251.5
5	4900 blk Clarke Road	8	330.4	330.4
5	4600 blk Cary Street	8	558.2	558.2
5	4900 blk Clarke Road	10	223.2	223.2
5	3300 blk 3rd Ave.	12	375	375
5	1500 blk Milton St.	12	188	188
5	1500 blk Milton St.	12	380	380
5	1500 blk Milton St.	12	50	50
5	3300 blk Park House	12	258	258
5	3300 blk Park House	15	382	382
5	4700 blk Bunting Avenue	15	151.2	151.2
5	Deep Water/Goode's Creek Interceptor Sewer	72	979	
5	6400 MIDLOTHIAN TNPK	12		597
6	3200 blk Alley Btw Enslow and 1st	8	446	446
6	4700 blk Bunting Avenue	8	205.3	205.3
6	4900 blk Shadwell Avenue	8	132	132
6	4700 blk Locke Lane	8	224.1	224.1
6	4700 blk Locke Lane	8	38.2	38.2
6	4700 blk Alley bet. Grandway Rd. and Cary St.	8	326	326
6	4700 blk Alley bet. Grandway Rd. and Cary St.	8	63.9	63.9
6	4800 blk Shadwell Avenue	10	157.8	157.8
6	4700 blk Bunting Avenue	10	205.6	205.6
6	4600 blk Grove Avenue	12	302.6	302.6
6	4600 blk Grove Avenue	12	302.1	302.1
6	4600 blk Grove Avenue	12	309.5	309.5
6	4700 blk Bunting Avenue	15	3.3	3.3
6	4700 blk Bunting Avenue	15	145.6	145.6
6	1700 blk Bums St.	18	188	188

YEAR: 2008

MONTH: November

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
6	1600 blk Burns St.	18	181	181
6	5208 Cary St	12	135	
6	3108 Decatur St	4	80	
7	4800 blk Hanover Avenue	15	397.7	397.7
7	4700 blk Hanover Avenue	15	367.9	367.9
7	Pocahontas & Virginia St	12	221	
7	Virginia St	12	234	
10	1600 blk Burns St.	8	280	280
10	1600 blk Burns St.	8	30	30
10	3000 blk Front St.	15	51	51
10	3000 blk Front St.	15	32	32
10	3300 blk 1st Ave.	24	351	351
10	Pocahontas & Hillcrest	8	448	
10	708 W 26th St	4	31	
11	3100 blk Alley Btw 2nd and 3rd	8	508	508
11	3000 blk Alley Btw 2nd and 3rd	8	440	440
11	1200 E Main St (36")	12	741	
11	2706 E Marshall St	4	1	
11	2511 The Terrace	4	65	
12	3000 blk Alley Btw 2nd and 3rd	8	78	78
12	3100 blk Alley Btw 1st and 2nd	12	507	507
12	3000 blk Alley Btw 1st and 2nd	12	457	457
12	1400 blk Front St.	15	34	34
12	1300 blk Front St.	18	182	182
12	1400 blk Front St.	18	183	183
12	3100 blk 3rd Ave.	42	461	461
12	3100 blk 3rd Ave.	54	50	50
12	810 N 27th ST	12	292	
12	2706 E Marshall St	4	35	
12	5310 Hull St	4	96	495
12	5310 Hull St	4	65	
12	614 N 37 th	4	22	
13	4800 blk Maxwell Road	8	113.9	113.9
13	4800 blk Maxwell Road	8	173.4	173.4
13	4800 blk Maxwell Road	8	449.4	449.4
13	4800 blk Maxwell Road	8	386.4	386.4
13	4900 blk Clarke Road	8	292.1	292.1
13	4600 blk Grove Avenue	10	326.8	326.8
13	4800 blk Grove Avenue	10	189	189
13	3000 blk 3rd Ave.	42	475	475
13	3000 blk 3rd Ave.	42	30	30
13	Deep Water/Goode's Creek Interceptor Sewer	72	3080	
13	1200 E Main St (42")	12	320	
13	1800 N 30th St	12	402	
13	1800 N 30th St	12	111	
14	3200 blk Alley Btw Delaware and Maryland	8	195	195
14	3000 blk Alley Btw Enslow and 1st	8	252	252
14	4700 blk Alley bet. Grandway Rd. and Cary St.	8	138	138
14	4700 blk Alley bet. Grandway Rd. and Calumet Rd.	8	370.1	370.1
14	4700 blk Bunting Avenue	10	11.9	11.9
14	3200 blk Alley Btw 1st and 2nd	12	507	507
14	3300 blk Alley Btw 1st and 2nd	12	485	485
14	3100 blk Dill Ave.	15	75	75
14	2910 Nine Mile Rd	12	143	
14	5901 York Rd	4	60	
15	Deep Water/Goode's Creek Interceptor Sewer	72	2468	
16	4600 Willway Avenue	8	148	148
17	3100 blk Alley Btw Enslow and 1st	8	487	487
17	3000 blk Enslow Ave.	8	145	145
17	3200 blk Alley Btw 3rd and Utah	8	97	97
17	3805 Seminary Ave	12	96	
17	1900 Creighton Rd	12	393	
17	2910 Nine Mile Rd	12	270	
17	2910 Nine Mile Rd	12	240	
17	2910 Nine Mile Rd	12	199	
17	3803 Seminary Ave	4	95	

YEAR: 2008

MONTH: November

DATE	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
			TELEVISED	CLEANED
17	1705 E Franklin St	4	65	
18	3200 blk Alley Btw 3rd and Utah	8	907	907
18	8216 Amonett Dr	8	210	
18	3200 Carolina Ave	12	72	
18	2514 Coles St	12	400	
19	3000 blk Alley Btw 3rd and Utah	8	9	9
19	3100 blk Alley Btw Carolina and Enslow	8	196	196
19	4800 blk Maxwell Road	8	191.1	191.1
19	4500 blk Westmoreland	8	368.3	368.3
19	4600 blk Grove Avenue	8	276	276
19	4600 blk Grove Avenue	8	29.6	29.6
19	4600 blk Grove Avenue	8	210.8	210.8
19	4700 blk Locke Lane	8	274.3	274.3
19	4700 blk Locke Lane	8	141.9	141.9
19	3200 blk Meadowbridge Ave.	10	499	499
19	2910 Nine Mile Rd	12	382	
19	4408 Fitzhugh Ave	4	26	
20	3200 blk Alley Btw Carolina and Maryland	10	555	555
20	3100 blk Meadowbridge Ave.	10	15	15
20	3100 blk Meadowbridge Ave.	12	166	166
20	800 blk Burns St.	12	29	29
20	3300 blk Meadowbridge Ave.	12	24	24
20	1800 N 30th St	12	47	
20	1600 W MAIN STREET	6		50
20	3800 BLK CHAMBERLAYNE AVE	8		264
21	3200 Dill Rd	4	124	
24	3200 blk Alley Btw Delaware and Maryland	8	460	460
24	3100 blk Meadowbridge Ave.	12	77	77
24	3200 blk Meadowbridge Ave.	12	73	73
24	3021 vBerwyn St	8	305	269
24	1800 N 30th St	12	190	
24	5404 Walmsley Blvd	4	83	
24	5400 WAMSLEY BLVD	8		160
25	400 Blk Hunt St	8	392	
25	1000 blk w. 45th St	8	310	
25	010 Blk Willway	8	260	260
27	3008 5th Ave	4	88	

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MONTHLY
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YEAR: 2008

MONTH: December

DATE	Block #	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
1	3000	Alley Btw 3rd and Utah	8	220	220
1	4800	LS-75 Grove Avenue	8		279.1
1	4800	LS-75B Grove Avenue	8		212
1	4800	LS-75-A Grove Avenue	8		210.7
1	3300	LS-1 33rd Street	18	396.7	396.7
2	3100	Alley btw Carolina and Enslow	8	129	129
2	3100	Alley btw Carolina and Enslow	8	373	373
2	4800	LS-93 17 Maxwell Rd	8		453
2	4600	LS-20 4608 Grove Ave	8		148
2	1600	Kemper St	12		274
3	2400	LS-Coles-B 2400 Block Coles	12	322	322
3	2500	LS-Coles-C 2400 Block Coles	12	322	322
3	2400	LS-Coles-A 2400 Block Coles	12	351.2	354
3	3700	Loudon St	24	243	243
3	3600	Missouri Ave	24	399	399
3	3300	Missouri Ave	30	25	25
3	200	Ladies Mile Rd	36	160	160
3	3300	Donnan St	36	40	40
3	3600	Donnan St	42	602	602
3	200	Ladies Mile Rd	42	64	64
3	3500	Missouri Ave	60	479	479
3	10	26 S Allen Ave	6	21	
4	5900	LS-Grove-2 5900 Block Grove Ave	8	113.3	113.3
4	200	LS-Poplar-1 200 Block Poplar Lane	8	188.2	188.2
4	5700	LS-Grove-4 5700 Block Grove Ave	8	196.4	196.4
4	5900	LS-Grove-2 5900 Block Grove Ave	8	203.9	203.9
4	5400	LS-Grove II 5400 Block Grove Ave	8	355.8	355.8
4	200	Ladies Mile Rd	8	137	137
4	200	Ladies Mile Rd	8	160	160
4	200	Ladies Mile Rd	8	166	166
4	600	Milton Ave	8	214	214
4	600	Milton Ave	8	379	379
4	4700	LS-83 4700 Block Alley @ Grandway & Calumet	8		210
4	4700	LS-84 4700 Block Alley @ Grandway & Calumet	8		138.5
4	3800	Patrick Ave	12	191	191
4	700	Pensacola Ave	12	35	35
4	600	Pensacola Ave	12	362	362
4	700	Pensacola Ave	12	371	371
4	200	Ladies Mile Rd	42	230	230
5		LS-SE 93.29 Maxwell	8	90.7	90.7
5	5700	LS-Patterson 5700 Block Patterson Ave	8	265.4	265.4
5	6700	Patterson Ave	8	302.4	302.4
5	4600	LS-59 4600 Block Cary Street	8	491	491
5	600	Highland St.	12	25	25
5	600	Highland St.	12	355	355
5	3700	Patrick Ave	15	289	289
5	3800	Patrick Ave	15	30	30
5	3700	Patrick Ave	15	300	300
5	6700	Patterson Ave	18	321.6	321.6
5	300	Ivanhoe St	36	218	218
5	3600	Woodson Ave	36	335	335
5	3500	Woodson Ave	36	354	354
5	300	Ivanhoe St	48	73	73
8	400	Hunt Ave.	8	215	215
8	200	LS-Poplar-1 200 Block Poplar	8		187
8	4700	LS-14 4700 Bunting	8		209.7
8	700	Pensacola Ave	12	116	116
8	700	Patrick Ave	12	192	192
8	700	Pensacola Ave	12	65	65
8	700	Pensacola Ave	12	66	66

YEAR: 2008

MONTH: December

DATE	Block #	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
8	600	Patrick Ave	12	7	7
8	700	Patrick Ave	18	217	217
8	3500	Branch St.	48	263	263
8	3600	Branch St.	48	330	330
8	1300	1316 E Cary St	6	14	
9	4700	LS-15-A 4700 Block Bunting	10		12.2
9	4800	LS-7 4800 Block Shadwell @ Grove	10		159
9	2400	2400 Block Coles	12		349.9
9	3600	Meadowbridge	36	256	256
9	3500	Meadowbridge	36	190	190
9	3600	Meadowbridge	36	48	48
9	4500	4514 Fitzhugh Ave	6	52	
9	3500	3556 Hermitage Rd	6	25	
9	1300	1311 Oakwood Ave	6	53	
10	600	Ladies Mile Rd	8	250	250
10	700	Ladies Mile Rd	8	267	267
10	4600	LS-59 4600 Block Cary Street	8		493
10	600	Ladies Mile Rd	12	20	20
10	3700	Rich. / Henrico Tnpk.	12	324	324
10	3400	3439 Blithewood Rd	6	19	
10	2700	2706 E Marshall St	6	40	
11	300	Hunt Ave.	8	440	440
11	3500	Meadowbridge	42	42	42
11	3400	Meadowbridge	42	546	546
12	3220	Wellington	8	175	175
12	3200	Alley Btw. 1st and 2nd	12	506	506
14	1000	1048 Circlewood Dr	6	40	
15	600	Hunt Ave.	12	450	450
15	3200	Alley Btw. 1st and 2nd	12	503	503
15	2400	2400 Block Coles	12		316.7
15	4700	LS-12 4700 Block Bunting	15		152
15	4700	LS-12 -A 4700 Block Bunting	15		6
15	4700	LS-13 4700 Block Bunting	15		148.9
15	1800	1820 Carlisle Ave	6	19	
16	5400	LS-Grove II 5400 Block Grove	8		358.6
16	4800	LS-8A 4800 Block Shadwell @ Grove	8		132.8
16	3700	Grayson St.	10	168	168
16	3500	Rich. / Henrico Tnpk.	10	318	318
16	3400	Rich. / Henrico Tnpk.	10	332	332
16	2500	LS-Coles-C 2500 Block Coles	12		319.6
16	Int	Kendal & Sean	8		880
17	3300	Rich. / Henrico Tnpk.	12	157	157
17	3300	Rich. / Henrico Tnpk.	12	182	182
17	600	Patrick Ave	12	421	421
17	400	Milton Ave	15	145	145
17	400	Milton Ave	15	208	208
17	4700	LS-5 Hanover Ave	15		371.6
17	4800	LS-4 Hanover Ave	15		398
17	500	Hazelhurst Ave	60	360	360
18	600	Patrick Ave	12	421	421
18	3600	Rich. / Henrico Tnpk.	42	289	289
18	3600	Rich. / Henrico Tnpk.	42	327	327
18	600	Patrick Ave	42	75	75
18	500	Patrick Ave	54	330	330
18	500	Patrick Ave	54	35	35
18	3100	3100 W Broad St	6	30	
18	3100	3100 W Broad St	6	121	
18	5300	5314 Patterson Ave	6	10	
18	600	604 Hull St	6	18	
19	500	Hunt Ave.	8	296	296
19	500	Ladies Mile Rd	8	312	312
19	500	Hunt Ave.	8	98	98
19	3500	Branch St.	48	90	90
19	3400	3427 Deerwood Dr	6	24	
22	500	Ladies Mile Rd	8	136	136
22	500	Ladies Mile Rd	24	24	24
22	500	Ladies Mile Rd	24	254	254

YEAR: 2008

MONTH: December

DATE	Block #	LOCATION	PIPE SIZE	SEWER LENGTH (FT)	
				TELEVISED	CLEANED
23	400	Ladies Mile Rd	8	133	133
23	400	Ladies Mile Rd	8	141	141
23	400	Ladies Mile Rd	8	350	350
23	500	Ladies Mile Rd	24	27	27
23	500	Ladies Mile Rd	24	58	58
23	3700	Ladies Mile Rd	48	18	18
23	2200	2220 Hildreth St	6	17	
23	1500	1512 Gunn St	6	36	
24	1900	1910 Maury St	6	22	
27	1700	1728 Claiborne St	6	15	
29	300	Ladies Mile Rd	21	260	260
29	3700	Loudon St	24	101	101
30	700	Decatur St.	6	268	268
30	10	7th St.	6	280	280
30	100	7th St.	6	357	357
30	800	Stockton St.	12	142	142
30	800	Stockton St.	12	2	2
30	800	Stockton St.	15	89	89
30	4700	4703 Bromley Lane	6	66	
30	1700	1715 Luburnum Ave	6	88	
31	4700	4700 Walmsley Blvd	6	14	
31	700	702 W26th St	6	91	

Combined Sewer System Report for 2008

APPENDIX 4-4

Catch Basin Cleaning

**CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT**

**YEARLY
Catch Basin Cleaning Summary**

YEAR: 2008SIGNATURE: Howard Glenn

DATE	MONTHLY TOTAL OF CATCH BASIN CLEANED	PERCENT OF TOTAL CATCH BASINS
JANUARY	273	0.91
FEBRUARY	239	0.80
MARCH	229	0.76
APRIL	406	1.35
MAY	407	1.36
JUNE	250	0.83
JULY	258	0.86
AUGUST	281	0.94
SEPTEMBER	353	1.18
OCTOBER	382	1.27
NOVEMBER	172	0.57
DECEMBER	147	0.49
YEARLY TOTAL	3397	11.32

Combined Sewer System Report for 2008

APPENDIX 5-1

Sewer Relining

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORTYEARLY
SEWER LINING REPORT

YEAR: 2008

SIGNATURE: Jan Wyatt

DATE	MONTHLY TOTAL LENGTH OF SEWER LINED
January	0
February	0
March	0
April	0
May	3,852
June	12,862
July	10,474
August	4,972
September	1,920
October	2,423
November	3,903
December	5,575
YEARLY TOTAL	45,981

S:\CLIENTS\Rich\0217E\Nine Min 2008\08Lining.xls]Totals

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORTMONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: January

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
1			
2			
3			
4	NO LINING IN JAN 08		
5			
6			
7			
8			
9			
10			
11			

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORTMONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: February

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
1			
2			
3			
4	NO LINING IN FEB 08		
5			
6			
7			
8			
9			

CITY OF RICHMOND, VIRGINIA
 DEPARTMENT OF PUBLIC UTILITIES
 NINE MINIMUM CONTROLS REPORT

MONTHLY
 SEWER LINING REPORT

YEAR: 2008

MONTH: March

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
1			
2			
3			
4			
5			
6			
7			
7			
7			
8	NO LINING IN MARCH 08		
8			
9			
10			
11			
12			
13			
13			
13			
14			
15			
16			
17			
18			

CITY OF RICHMOND, VIRGINIA
 DEPARTMENT OF PUBLIC UTILITIES
 NINE MINIMUM CONTROLS REPORT

MONTHLY
 SEWER LINING REPORT

YEAR: 2008

MONTH: April

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
1			
2			
3			
4			
5			
6			
7			
8	NO LINING IN APRIL 08		
9			
10			
11			
12			
12			
12			
13			
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24			
24			
25			
26			
27			
27			
27			
27			
28			
29			
30			

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORTMONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: May

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
21	4300 N. Ashlawn Dr.	8	258
21	4300 N. Ashlawn Dr.	8	268
22	4400 S. Ashlawn Dr.	8	253
22	4400 S. Ashlawn Dr.	8	272
22	010 Woodlawn Dr.	8	70
22	010 Woodlawn Dr.	8	139
22	100 Woodlawn Dr.	8	57
22	4400 Grove Ave.	8	355
23	4400 S. Ashlawn Dr.	8	390
23	4400 S. Willetta Dr.	8	278
23	4400 S. Willetta Dr.	8	165
28	100 Woodlawn Ave.	8	406
29	200 Willetta Dr.	8	138
29	200 Willetta Dr.	8	104
29	200 Willetta Dr.	8	88
30	4400 Grove Ave.	8	313
30	4400 Grove Ave.	8	298

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: June

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
2	100 Westmoreland St.	8	297
2	4200 Kingcrest Parkway	8	305
3	010 Commonwealth Ave.	12	174
3	010 Commonwealth Ave.	12	163
4	100 Commonwealth Ave.	12	194
4	100 Commonwealth Ave.	12	167
9	100 Commonwealth Ave.	12	352
10	200 Commonwealth Ave.	12	177
10	200 Commonwealth Ave.	12	339
10	200 Commonwealth Ave.	12	250
10	200 Commonwealth Ave.	12	510
11	300 Sauer Ave.	12	402
11	300 Sauer Ave.	18	322
11	400 Sauer Ave.	18	190
12	400 Sauer Ave.	18	338
13	300 Commonwealth Ave.	8	253
13	400 Commonwealth Ave.	8	317
13	200 Willetta Dr.	8	98
13	300 Sauer Ave.	12	426
13	400 Sauer Ave.	8	180
14	200 Willetta Dr.	8	296
14	010 Commonwealth Ave.	8	306
14	100 Commonwealth Ave.	8	66
14	200 Commonwealth Ave.	8	226
15	4400 Patterson Ave.	8	188
16	200 (Alley) Grove & Hanover	8	331
16	4300 Cary Street	8	92
16	4300 Cary Street	8	334
17	4400 Cary Street	8	202
17	400 9th St	12	118
17	1000 Blk Everett	8	177
17	1000 Blk Everett	8	332
18	4400 Stuart Ave.	8	450
18	4300 Kensington Ave.	12	375
18	4300 Kensington Ave.	12	29
18	4400 Kensington Ave.	10	170
18	4400 Kensington Ave.	18	143
19	4300 Patterson Ave.	8	164
19	4300 Patterson Ave.	18	173
20	500 Sauer Ave.	8	215
21	4300 Hanover Ave.	8	343
24	4300 Hanover Ave.	8	246
25	4400 Hanover Ave.	10	298

YEAR: 2008

MONTH: June

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
26	4400 Hanover Ave.	8	160
26	4500 Hanover Ave.	8	160
26	4500 Hanover Ave.	8	308
27	4600 Hanover Ave.	8	285
29	4500 Cary Street	30	258
30	4500 Cary Street	36	261
30	4500 Cary Street	15	163
30	4500 Cary Street	8	278
30	5700 Block of Park Ave.	8	261

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: July

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
1	5700 Block of Bromley Ave.	8	260
2	Crawford Ave. between Fendall Ave. & Griffin Ave.	15	176
2	3100 Block Fendall Ave.,	15	446
2	3100 Block Fendall Ave.,	8	230
3	4500 Cary St	36	340
3	4500 Cary St	36	308
3	400 Block of Libbie Ave.	8	303
8	Alley, 3300 Block between Griffin Ave. & Fendall Ave.	8	224
9	4400 Cary	36	275
9	4400 Cary	36	275
9	4400 Cary	36	300
11	Cary Street	8	540
11	4200 Stuart	8	358
11	4200 Stuart	8	352
14	4400 Hanover	8	200
14	4400 Hanover	8	134
21	Alley, 3000 Block between Griffen Ave. & Fendall Ave.	8	499
23	4400 Hanover	8	249
23	4500 Leonard Parkway	8	182
23	4500 Leonard Parkway	8	334
23	Alley between Garland Ave. 3100 Block and North Ave.	8	245
23	Alley between Garland Ave. 3000 Block and North Ave.	8	259
24	Alley, 3000 Block Between Fendall Ave. & Hanes Ave.	10	495
24	Alley, 3000 Block Between Fendall Ave. & Hanes Ave.	10	150
24	Hanes Ave., 3100 Block	27	399
24	Alley, 3000 Block between Cliff Ave. and Woodrow Ave.	10	262
24	6700 Block of Patterson Ave.	8	302
25	Brookland Park Boulevard between Hanes Ave. & Fendall Ave.	36	346
27	500 Block of Libbie Ave.	8	281
28	Alley, 3100-3200 Block Between Griffin Ave. & Fendall Ave.	8	586
28	Alley, 3100-3200 Block Between Griffin Ave. & Fendall Ave.	8	639
29	North Ave. 3000 Block	36	55
29	5700 Block of Franklin Ave.	8	251
30	Barton Ave. @ Gladstone Ave.	30	40
31	Brookland Park Blvd. between Cliff Ave. and Alvis Ave.	24	179

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: August

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
6	Brookland Park Blvd between Garland Ave. and Hanes Ave.	24	341
6	Brookland Park Blvd between Hanes Ave. and Fendall Ave.	24	355
6	500 Block of Libbie Ave.	8	278
7	Alley , 3200 Block between Edgewood Ave. and Fendall Ave	8	400
7	Alley, 3100 - 3200 Block between Griffen Ave. and Fendall Ave.	8	22
7	3000 Block of Barton Ave.	36	510
7	Barton Ave. and Brookland Park Blvd.	30	43
12	Alley between North and Gladstone	8	282
12	Alley between 3100 Block of Barton and Lamb	10	668
12	Alley between 3000 Block of Barton Ave. and Lamb Ave. @ Crawford Intersection	10	42
13	Alley between Haynes Ave. 3000 -2900 Block and Garland Ave.	8	272
13	Alley between 3000 Block of Barton and Lamb	8	486
14	Alley between Garland Ave. 3000 Block and North Ave.	8	252
21	Ladies Mile road between Garland Ave. and North Ave.	6	17
21	Alley between Garland Ave. 3000 Block and North Ave.	8	304
21	Alley, 3200 Block Between Fendall Ave. and Hanes Ave.	10	700

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORTMONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: September

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
8	1500 Palmyra Ave	18	768
10	4200 Blk Patterson	8	342
11	4300 Blk Hanover	8	445
23	300 Blk Libbie	8	365

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORTMONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: October

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
1	Alley LS #19	8	206.5
1	Alley LS#20	8	101.8
2	Alley LS#36A	10	340
7	Alley LS #45A	10	500
9	Brookland Park #3	10	169
21	E. Main St F1	12	253.5
22	Madison B3	12	318
23	Jefferson St D3	12	130
28	Broad St #A1	15	304
29	Jefferson St K1	8	100

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORTMONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: November

DATE	LOCATION	PIPE SIZE	SEWER LENGTH LINED
13	4600 Grove Avenue	12	304.4
13	4600 Grove Avenue	12	301.8
19	4600 Grove Avenue	12	308.3
19	4900 Clarke Road	8	194.1
4	4900 Clarke Road	8	251.8
24	4700 Locke Lane	8	278.4
24	4700 Locke Lane	8	227.4
24	4700 Locke Lane	8	143.7
25	4900 Clarke Road	8	295.9
25	4900 Clarke Road	8	333.6
4	4900 Clarke Road	10	225
5	4800 Grove Avenue	10	192
20	1200 blk33rd & S Street	18	399.6
6	900 blk Dinwiddie Street	18	447

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

MONTHLY
SEWER LINING REPORT

YEAR: 2008

MONTH: December

DATE	BLOCK #	LOCATION	PIPE SIZE	SEWER LENGTH LINED
1	4800	LS-75 Grove Avenue	8	279.1
1	4800	LS-75B Grove Avenue	8	212
1	4800	LS-75-A Grove Avenue	8	210.7
2	4800	LS-93 17 Maxwell Rd	8	453
2	4600	LS-20 4608 Grove Ave	8	148
3	4700	LS-85 Locke Lane Easement	8	371
3	4600	LS-20 4600 Block Willway Ave	8	148
4	4700	LS-83 4700 Block Alley @ Grandway & Calumet	8	61/6
4	4700	LS-84 4700 Block Alley @ Grandway & Calumet	8	138.5
8	200	LS-Poplar-1 200 Block Poplar	8	187
8	4700	LS-14 4700 Bunting	8	209.7
10	4600	LS-59 4600 Block Cary Street	8	493
16	5400	LS-Grove II 5400 Block Grove	8	358.6
16	4800	LS-8A 4800 Block Shadwell @ Grove	8	132.8
9	4700	LS-15-A 4700 Block Bunting	10	12.2
9	4800	LS-7 4800 Block Shadwell @ Grove	10	159
9	2400	2400 Block Coles	12	349.9
15	2400	2400 Block Coles	12	316.7
16	2500	LS-Coles-C 2500 Block Coles	12	319.6
17	4700	LS-5 Hanover Ave	15	371.6
17	4800	LS-4 Hanover Ave	15	398
15	4700	LS-12 4700 Block Bunting	15	152
15	4700	LS-12 -A 4700 Block Bunting	15	6
15	4700	LS-13 4700 Block Bunting	15	148.9

Combined Sewer System Report for 2008

APPENDIX 9-1

Loose Leaf

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

YEARLY
LOOSE LEAF COLLECTION SUMMARY

YEAR: 2008

January-December

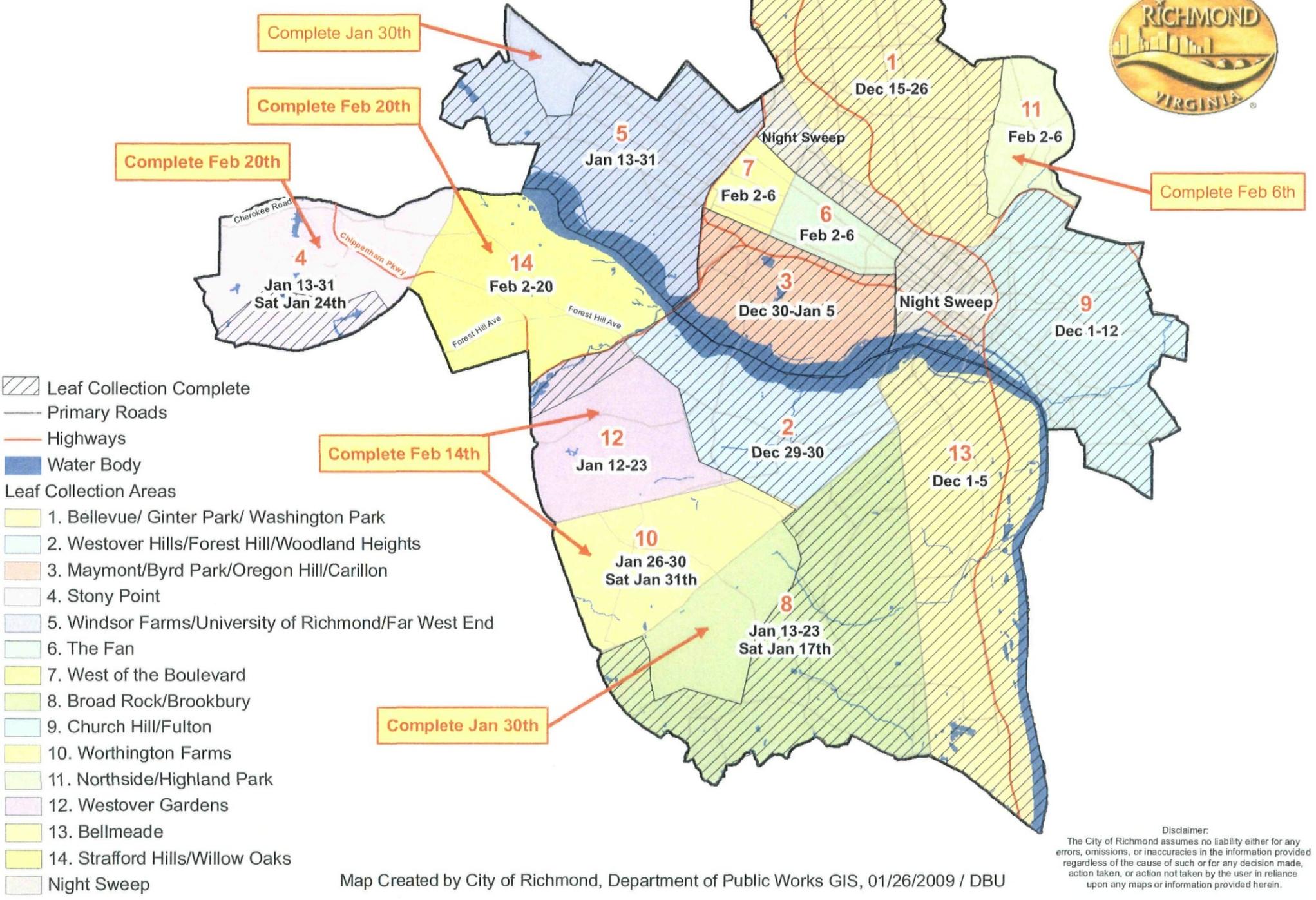
GENERAL RESIDENTIAL ROUTE	TONNAGE
SEE ATTACHED MAP AND LEAF COLLECTION SCHEDULE	21,279

SIGNATURE: Wade Taylor

Leaf Collection Program Routes & Schedules

2008 - 2009

City of Richmond, VA
DPW Geographic Information Systems



Map Created by City of Richmond, Department of Public Works GIS, 01/26/2009 / DBU

Disclaimer:
The City of Richmond assumes no liability either for any errors, omissions, or inaccuracies in the information provided regardless of the cause of such or for any decision made, action taken, or action not taken by the user in reliance upon any maps or information provided herein.

Leaf Collection

"We're Turning Over a New Leaf"

Richmond Implements a NEW and IMPROVED Leaf Collection Program for 2008-2009!

We're pleased to unveil our new one cycle, 10 week annual residential leaf collection services. It starts December 1st and runs through January 30th. We'll need your cooperation to make our new program a success.



Vacuum Collection

2009 Leaf Collection Schedule

[Click Here for Map](#) This Leaf schedule is subject to change due to inclement weather.

Collection Zone	Cycle Dates
Bellevue/Ginter Park/Washington Park	Complete
Westover Hills/Forest Hill/Woodland Heights	1/12 - 1/23
Maymont/Byrd Park/Oregon Hill/Carillon	12/30-1/5
Stony Point	1/13 - 1/31
Windsor Farms/Univ. of Richmond/Far West End	1/13 - 1/31
The Fan	2/02 - 2/06
Museum District/West of the Boulevard	2/02 - 2/06
Broad Rock/Brookbury	1/13 - 1/31
Church Hill/Fulton	Complete
Worthington Farms	1/26 - 1/30
Northside/Highland Park	2/09 - 2/13
Westover Gardens	12/29-12/30
Bellmeade	Complete
Strafford Hills/Willow Oaks	2/02 - 2/27

Vacuum Collection Program Guidelines

- Rake leaves to your property line.
- Do not rake leaves into the street.
- Leaves must be placed out for collection by the start date indicated for your route.
- Keep leaf piles less than 2 feet in height.
- Keep leaves away from ditches, pipes, and culverts.
- **NO DIRT, ROCKS, METAL OR BRANCHES;** these items will prevent crews from collecting your piles.

"Bag-n-Go"

Please remember, you don't have to use vacuum service or wait for your scheduled collection to get rid of your leaves. Just put your bagged leaves near the curb, preferably in biodegradable lawn and leaf bags. Here's why we recommend biodegradable bags.

- They're more environmentally friendly and can be recycled, right along with the leaves
- We'll pick up as many as 6 bags every week all year on your regular trash collection day
- We'll pick up as many bags as you put near the curb during your leaf collection cycle

Please understand, bad weather can adversely affect our leaf collection schedule. This includes not only rainy weather, but snow as well. We have to put our snow removal equipment on the same vehicles that collect the leaves.

Keep in mind, the City of Richmond strongly urges that you use bags.

And, if you want to dispose of your bagged or loose leaves yourself, you may. Just take them to:

- East Richmond Road Convenience Center (3800 East Richmond Road at Jennie Scher Road)
- The "Powerline" (8600 Huguenot Road at NW corner of Chippenham Parkway)
- Maury Street Landfill (2900 Maury Street)

To make sure your leaves get recycled, do NOT include items other than leaves in the bags.

Backyard Composting

Though not an actual City service, we do advocate backyard composting as the most efficient and environmentally sound disposal option. Call the Clean City Commission at 646-5659 for details.

Special Collections

For those in a hurry, we can schedule special collections for a \$75 fee.

Disclaimer

Please understand, bad weather can adversely affect our leaf collection schedule. This means not only when it rains, but when it snows because we have to put our snow removal equipment on the same vehicles that pick up the leaves.

**For up-to-date information or schedule changes, call our Leaf Hotline at 646-LEAF (5323).
If you have questions, please call the City's Customer Care Center at 3-1-1
or send an e-mail to DPW@richmondgov.com.**



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Combined Sewer System Report for 2008

APPENDIX 10-1

Plant Tours

City of Richmond, Virginia
Department of Public Utilities

Wastewater Treatment Plant

Plant Tours
2008

Date	Group	No. of People
February 25	Richmond Public Schools	25
March 20	Richmond Public Schools	20
May 15	James River Scenic Advisory Committee	8
October 6	VCU Public Policy	10
October 30	Virginia Commonwealth University, School of Engineering	10
November 12	Virginia Commonwealth University, MCV School of Nursing	15

Combined Sewer System Report for 2008

APPENDIX 10-2

Adopt-A-Spot

ADOPT A SPOT REPORT
 CLEAN CITY COMMISSION
 DEPARTMENT OF PUBLIC WORKS

Map#	Participant	Date	Contact info	No. persons	Hrs	Bags
	Alpha Sigma Alpha - Morris St. between Cary and Floyd	10/03-10/04/07		1	3	5
PG. 22 J-4	The Bluffs Condominium Association - Stoney Point Rd from Huguenot Rd to Evansway Lane					
	Chestnut Hill Action Team - 1700 Blk 5th Ave.					
	Delta Sigma Thea Sorority, Inc. Beta Epsilon Chapert - Brook Rd. - Graham Rd. to Brookland Parkway					
Pg. 24 H-3	Delta Sigma Theta Sorority - Black History Museum & Cultural Ctr. Of Va. And Clay St. from Adams to 4th St.	3/8/2008	Sandra Smith 646-3654	6	1	4
		5/10/2008				
		7/17/2008				
		8/9/2008				
		9/13/2008				
		4/12/2008				
	Tru Linkz Motorcycle & Social Assoc. - Leigh/Hermitage/W. Moore and Dinneen					
	Fan's Woman's Club - Meadow Prk@ Meadow & Grove					
Pg. 23 G-7	Forest Hill-Biiley Road Neighborhood Association - Biiley Rd. from Forest Hill to Blakemore Rd					
Pg. 24 K-6	Friends of Bellevue School -24th St. Stairwell Areas & E. Franklin Street					
	Friends of Sydney Park - Sydney Park (Floyd Ave, N. Morris, N. Brunswick St.)					
	Friends of Bryan Park					
	Friends of James River Park	10/26/2008	Maureen Egan 560-4815	7	1 1/2	15
		1/17/2009		8	2	8
	Green Unity 4 VCU	10/11/2008	William Isenburg 305-775-0184	14	2	17
		11/9/2008		4	2	15
	Princess A. Thomas - Smith - 3500 Blk Woodson Ave.					
	William Byrd Community House - Idlewood Ave. bet Harrison and Cherry					
	Highland Park Plaza Civic Association - Highland Park Plaza - 3300 blk Carilina Ave.					

Map#	Participant	Date	Contact info	No. persons	Hrs	Bags
	Jane Abbptt - Grove Ave between Westmoreland and Willway					
	J.P. Crowder's Deli - Christine W. Banks -305 Brook Rd. deli for 309-311 N. Adams Street					
	Kelleher Heating and Cooling - School Street - 1200 & 1300 blks					
	Woodrow Ave. Association - 3000-3100 Blks Woodrow Ave.					
pg. 17 H-11	Kindom Village African- American Christian School - Hotchkiss Field - 700 Blk. Brookland Park Blvd. - Corner Median Meadowbridge & Craigie , Corner Median Meadowbridge & Arnold					
	King David Lodge No. 28 - 2100-2400 Jefferson Ave. Kenneth Samuels 783-2786					
	Kelleher Heating and Cooling - School Street - 1200 & 1300 blks					
	Richard T. Minter/Victoria J. Viruos - Hawthorne Ave. from Laburnum to North					
Pg. 23 D-5	Marine Corps League - On and Off ramps Chippenham Pkwy & Forest Hill	10/06 -10/07/07 & 10/11 - 10/12/07		1	3	4
	New Cannon Pentecostal Church - Hopkins Rd btw Holly Springs and McGuire St.					
	National Honor Society - Richmond Community High - 1600-1800 Chamberlayne Ave.					
Pg. 17 F-13	Omega Psi Phi-Zeta Chapter - Graham Rd. btw Lombardy and Cecil Rd.					
	Alpha Kappa Delta Phi Sorority, Inc.. - Linden Street					
	NAACP at VCU - 400 Randolph St					
Pg. 23 A-9	Reedy Creek Coltion - Crooked Branch Ravine (Crutchfield St. & Reedy Creek)					
	University of Richmond - Marsh Hall - River Road btw Spider and UR Drive					
Pg. 24 G-2,3	Richmond Free Press - Belvidere from Broad to Leigh					
	Westlake Hills - Blakemore Rd 1300-1800 blks					
	Shewood Park Civic Assoc. - Brookland Pkwy, 95. Underpass at Hermitage, Robin Hood Rd and Boulevard					
	Sisterfriends Richmond Metropolitan Chapter - Chimborazo Park					
	Sports Anglers's Fishing Club - Ancarrow Landing	12/8/2007		3	2	6

Map#	Participant	Date	Contact info	No. persons	Hrs	Bags
		10/15/2008	Pernell Taylor - Permtaylo@aol. com	3		5
Pg.24 F-24	Supreme Ladies Motorcycle Club, Inc. - Belvidere from Broad to Franklin					
	VCU - Americorps _ Bowling Green Rd	8/11/2007		2	1	2
	Elizabeth Dodson	10/20/07		4	2	5
	Erin Burke - 827-1918	11/17/07		10	2	6
	Erin Burke - 827-1918	12/15/07		13	2	10
		1/12/2008		2	2	2
		2/18/2008		6	2	6
		2/23/2008		6	2	4
		3/16/2008		2	2	2
		5/17/2008		4	2	4
		9/11/2005		6	2	8
		11/15/08		9	2	4
		1/17/2009		3	2	9
	VCU - Sierra Club	10/27/07				
	VCU Geography Students	11/10/07		25	4	13
	Tammy Parece/ Helen Ruth Aspace	4/3/08		12	4	
		4/5/08		12	4	
		4/27/08		15	4	
		10/19/08		4	20	30
		11/1/08	Helen Aspas	19	9	72
	Erich Rd & German School Rd	11/15-16/08		19	16	75
	Theta Rho Chapter of Alpha - Laurel Street	8/25/07, 9/01/07, 9/30/07		4	2	
	Theta Rho Chapter of Alpha - Laurel Street	11/17/07		5	2	4 1/2
	Johnnie Bandino - Semmes & Forest Hill to Semmes & 29th					
	Justice Services Community Service Program	1/12/2008		9	2 1/2	2
		1/13/2008		5	45	1
		1/19/2008		5	45	1
		1/20/2008		9	2 1/2	2
		6/8/2008		5	30	3
		6/28/2008		5	40	4
	QueenBeez Motorcycle & Social Club - On Broad Street (btw Madison & Jefferson)	2/17/2008		5	1	1
		6/14/2008		4	45	1
	Multicultural Greek Council	3/1/2008		11	2	6

Map#	Participant	Date	Contact info	No. persons	Hrs	Bags
	Richmond Police Dept 1st Precinct Officer Ford	4/9/2008		4	5	10
	Richmond Police Dept 1st Precinct	4/16/2008		7	5	30
	Delta Upsilon Chapter of Phi Beta Sigma - Patrick Dunlop	4/17/2008		5	1	1
	Floyd Ave & Cherry - Floyd Ave &. N Linden St	5/8/2008		2	1	1
		5/9/2008		4	1	1
	Bowe St Citizens - Kim Milford #7309					
	Lady Unity Rydaz MC/SC - Raquel Lundy 305-8294	5/18/2008			10	10
		8/24/2008		14	1	6
		9/20/2008		16	1	6
	North Central Richmond K Club	8/23/2008		6	14	16
	Kimberly Wilform & Family	9/12/2008		2	1 1/2	2
	Sigma Alpha-Epsilon - Shafer & Franklin to Harrison & Frankli	9/16/2008	Chris Lambert - 651-0793			
		9/24/2008	Chris Lambert - 651-0793	15	2	20
		10/2/2008	Chris Lambert - 651-0793	14	2	17
		10/9/2008	Chris Lambert - 651-0793	12	2	18
		10/20/2008	Eric Hanal (757) 472-1300	15	1.5	18
	Hagga Chapter #18 Holy Royal Arch Mason -500 blk N. 24th Street	8/28/2008	Leonard Dilligard 437- 4934	3	40 mins.	1
		9/30/2008		4	30	1
		10/29/2008		3	45	1
	The eMagine - Nation Foundation - Idlewood Ave., Grayland Ave., S. Meadow Sreet	11/8/2008	Ronnie Beale 757 572-7732	10	4	11
		11/22/2008		5	3	6
	Pi Lambda Phi Fraternity Inc	11/23/2008	Melvin Dunn (571) 247-7854	13	1	5
		12/7/2008		11	1	7
		1/17/2009		12	1	3
		2/1/2009		8	1	6
TOTAL				472	406.5	553.5

Combined Sewer System Report for 2008

APPENDIX 10-3

Trash Pick Up

**City of Richmond, Virginia
Department of Public Works
Nine Minimum Controls Report**

**Yearly
Litter Basket Collection Summary**

Year 2008Signature Marvin Freeman

Month	Number of Baskets Cleaned		Tonnage
January	667 (460	X 6 collections per week + 207 X 1 collection per week)	45
February	812 (560	X 6 collections per week + 252 X 1 collection per week)	42
March	957 (660	X 6 collections per week + 297 X 1 collection per week)	57
April	1,450 (1000	X 6 collections per week + 450 X 1 collection per week)	57
May	1,233 (850	X 6 collections per week + 383 X 1 collection per week)	57
June	1,175 (810	X 6 collections per week + 365 X 1 collection per week)	91
July	943 (650	X 6 collections per week + 293 X 1 collection per week)	61
August	1,175 (810	X 6 collections per week + 365 X 1 collection per week)	87
September	1,769 (1220	X 6 collections per week + 549 X 1 collection per week)	61
October	1,102 (760	X 6 collections per week + 342 X 1 collection per week)	60
November	870 (600	X 6 collections per week + 270 X 1 collection per week)	72
December	827 (570	X 6 collections per week + 257 X 1 collection per week)	73
Yearly Total	12,978 (8,950	X 6 collections per week + 4,028 X 1 collection per week)	763

City of Richmond, Virginia

Department of Public Works

L. Douglas Wilder
Mayor

FOR IMMEDIATE RELEASE
February 29, 2008

Contact: Marc LaFountain
Phone: (804) 646-5607

Richmond Celebrates New Household Hazardous Waste Facility

Citizens and representatives from the City's Department of Public Works held a ribbon cutting today for a facility that will accept household hazardous waste items from City residents free of charge.

The East Richmond Road Convenience Center located at 3800 East Richmond Road, will begin operating the new household hazardous waste facility on Monday, March 3. It will be available on weekdays from 7 a.m. to 4:30 p.m. and on Saturdays from 9 a.m. to 2 p.m. Photos of the ribbon cutting and the new facility are attached to this release.

"It is vital that hazardous waste we create in maintaining our homes and vehicles be disposed of in a safe manner," Rosemary Green, acting director of the Department of Public Works, said. "This new service gives Richmond residents a free and easy way to deal with their hazardous waste responsibly."

Household hazardous waste items that will be accepted at the facility include:

- Solvents (mineral spirits, paint thinner, turpentine, acetone)
- Paints (oil or latex, polyurethane, tung oil, stains, varnish, shellac, tints, lacquer thinners, paint reducers, primers, varsol)
- Fuels (gasoline, gasoline additives, #2 fuel oil, kerosene, diesel, chain saw fuel, motor boat fuel, oil additives)
- Propane tanks
- Car fluids (motor oil, transmission fluid, antifreeze)
- Car batteries (lead acid batteries only)
- Cooking oil

The facility cannot accept fire extinguishers, asbestos, road flares, herbicides or pesticides, household cleaners or drain openers, explosives or materials that are shock-sensitive, radioactive or infectious. It also cannot accept hazardous waste items from commercial entities or from persons living outside the city limits of Richmond.

Before using the service, people will be asked to provide proof of residency via a current driver's license, utility bill or vehicle registration. Staff from the Department of Public Works will be available to assist residents with the unloading of their waste materials.

In addition to accepting household hazardous waste materials, the East Richmond Road Convenience Center will continue to accept non-hazardous household waste, yard waste, tires (up to four with no rims), and large appliances. It will also continue to make free mulch & firewood available to city residents.

If members of the public have questions regarding the household hazardous waste service, they can call Department of Public Works Customer Care Center at 311.

###

Photo: Marvin Freeman (left), Solid Waste Operations Manager, and Rosemary Green (right), Acting Director of Public Works, prepare to cut the ribbon on the new household hazardous waste facility.

Photo: Different barrels at the facility are used for storing various types of household hazardous waste.

Photo: Rosemary Green, Acting Director of Public Works, pours used synthetic motor oil from her car into a collection barrel at the new household hazardous waste facility.



Richmond Celebrates New Household Hazardous Waste Facility

To view a video of the event, [click here](#).

Citizens and representatives from the City's Department of Public Works held a ribbon-cutting ceremony today, celebrating the opening of a new household hazardous waste facility.



The facility, located in the East Richmond Road Convenience Center at 3800 East Richmond Road, will open to the public Monday, March 3. Hours of operation are 7 a.m. to 4:30 p.m. weekdays and from 9 a.m. to 2 p.m. on Saturdays.

"It is vital that the hazardous waste we create in maintaining our homes and vehicles be disposed of in a safe manner," said Rosemary Green, acting director of the City's Department of Public Works. "This new service gives Richmond residents a free and easy way to deal with their hazardous waste responsibly."

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- Fuels (gasoline, gasoline additives, #2 fuel oil, kerosene, diesel, chain saw fuel, motor boat fuel, oil additives)
- Propane tanks
- Car fluids (motor oil, transmission fluid, antifreeze)
- Car batteries (lead acid batteries only)
- Cooking oil

The facility cannot accept fire extinguishers, asbestos, road flares, herbicides or pesticides, explosives or materials that are shock-sensitive, radioactive or infectious. Hazardous waste items from commercial entities or from persons living outside of the City limits are also not accepted at the facility.

As this service is provided free of charge, visitors will be required to provide proof of residency, such as a valid driver's license, utility bill or vehicle registration. Staff from the City's Department of Public Works will be onsite to assist residents with unloading and disposal of their waste materials.

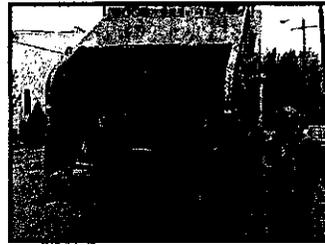
In addition to accepting household hazardous waste materials, the East Richmond Road Convenience Center will continue to accept non-hazardous household waste, yard waste, tires (up to four with no rims), and large appliances. It will also continue to make free mulch and firewood available to City residents.

If you have questions about the household hazardous waste service, contact the City's Department of Public Works Customer Care Center at 311.

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Refuse Collection

Residential trash is collected once per week in the City of Richmond. Supercans must be placed out by 6 a.m. the day of collection to ensure pick-up. The City recommends that you put yard debris, such as leaves, in biodegradable plastic or paper bags, so they can be recycled. We will remove up to 6 bags of leaves during your weekly trash collection. Please call the City's Customer Care Center at 3-1-1 to find out what day collection occurs at your address, or refer to this [map](#).



Removal of Receptacles from City Property and Right-of-Ways

The City of Richmond will issue warnings for refuse and recycling receptacles left in the public right of way outside of specified collection times. The trash and recycling receptacles used by Richmond residents and businesses will be subject to these warnings. After a two-month public awareness campaign, fines of \$50 per day, per receptacle, may be issued starting in May until the receptacles are removed.

City Ordinance 2007-230-275, which was approved by City Council in November of 2007, allows receptacles to be placed on City property or in the public right-of-way no earlier than 4 p.m. the day prior to collection and requires the receptacles be removed by 7 a.m. the day after collection.

In March and April, the City's Department of Public Works will place yellow warning stickers on receptacles that must be removed. Beginning May 1, the department also will begin issuing red violation stickers that carry a \$50 per day fine for each receptacle. The fine will be assessed to residents and businesses through their monthly Department of Public Utilities bills.

Leaving receptacles on public sidewalks, alleys, roads and other City property isn't just unsightly, it also creates unsafe conditions for pedestrians and vehicles. Please help keep these areas attractive and safe by removing your receptacles from them outside of the specified collection times.

Household Hazardous Waste and Electronics Collection

The East Richmond Road Convenience Center at 3800 East Richmond Road, accepts household hazardous waste from 7 a.m. to 4:30 p.m. weekdays and from 9 a.m. to 2 p.m. on Saturdays.

Household hazardous waste items accepted at the facility include:

- Solvents (mineral spirits, paint thinner, turpentine, acetone)
- Paints (oil or latex, polyurethane, tung oil, stains, varnish, shellac, tints, lacquer thinners, paint reducers, primers, varsol)
- Fuels (gasoline, gasoline additives, #2 fuel oil, kerosene, diesel, chain saw fuel, motor boat fuel, oil additives)
- Propane tanks
- Car fluids (motor oil, transmission fluid, antifreeze)
- Car batteries (lead acid batteries only)
- Cooking oil

The facility cannot accept fire extinguishers, asbestos, road flares, herbicides or pesticides, explosives or materials that are shock-sensitive, radioactive or infectious. Hazardous waste items from commercial entities or from persons living outside of the City limits are also not accepted at the facility.

As this service is provided free of charge, visitors will be required to provide proof of residency, such as a valid driver's license, utility bill or vehicle registration. Staff from the City's Department of Public Works will be onsite to assist residents with unloading and disposal of their waste materials.

Supercans

By City Code, one refuse Supercan is provided to each household free of charge. A second can may be purchased for \$55; just call us to order it and have the fee applied to your utility bill. You also may

call us to request a replacement Supercan if yours is damaged. It may take up to a week for delivery.

Recycling

The City of Richmond offers a curbside recycling collection service through its partnership with Central Virginia Waste Management Authority. More information on this program is available on our [Clean City Commission Web page](#).

- No need to separate - the following items can be mixed all together in your recycling bin: newspapers, mixed paper, aluminum cans, steel cans, aluminum foil, glass bottles and jars, and narrow neck plastic bottles #1 & #2, (such as milk, soap, shampoo & detergent bottles).
- Throw your lids in the trash.

Bulk Item Collection for 2009

Some items are simply too large to fit in a Supercan or to physically be collected using our standard equipment. These typically include furniture and large amounts of yard waste, which should be placed beside your Supercan out of the roadway. Such items are collected by the City on a four-week, rotating schedule based on Zip Code. Citizens should call 3-1-1 to schedule a pick up. Following is the current collection cycle:

Please continue to call our Customer Care Center at 3-1-1 to ensure that we are aware of your items.

Collection Zone/Zip Codes	Collection Weeks
Collection Zone: A Collection Zip Codes: 23227, 23222, 23223, 23231, 23219	Jan. 11-17, Feb. 8-14, March 8-14, April 5-11, May 3-9, May 31-June 6, June 28-July 4, July 26-Aug. 1, Aug. 23-29, Sept. 20-26, Oct. 18-24, Nov. 15-21, Dec. 13-19
Collection Zone: B Collection Zip Codes: 23224, 23234	Jan. 18-24, Feb. 15-21, March 15-21, April 12-18, May 10-16, June 7-13, July 5-11, Aug. 2-8, Aug. 30-Sept. 5, Sept. 27-Oct. 3, Oct. 25-31, Nov. 22-28, Dec. 20-26
Collection Zone: C Collection Zip Codes: 23235, 23225	Jan. 1-3, Jan. 25-31, Feb. 22-28, March 22-28, April 19-25, May 17-23, June 14-20, July 12-18, Aug. 9-15, Sept. 6-12, Oct. 4-10, Nov. 1-7, Nov. 29-Dec. 5, Dec. 27-31
Collection Zone: D Collection Zip Codes: 23173, 23226, 23221, 23220, 23230	Jan. 4-10, Feb. 1-7, March 1-7, March 29-April 4, April 26-May 2, May 24-30, June 21-27, July 19-25, Aug. 16-22, Sept. 13-19, Oct. 11-17, Nov. 8-14, Dec. 6-12

Appliance Collection

There is a \$50 fee for collection of appliances. For more information, or to arrange a pickup, please call 3-1-1. You may also send a check or money order to the following address and we will schedule collection immediately: Department of Public Works Customer Care, 900 E. Broad Street, Room 704, Richmond, Va. 23219. Be sure to include the service address.

Department of Environmental Quality (DEQ)

Richmond residents may dispose of household and bulk items at our transfer station, and yard waste to our landfill, at no charge.

Richmond Southside Transfer Station

3520 Hopkins Road

Hours: Monday-Friday 6:30 a.m. – 5:30 p.m. and Saturday 8:30 a.m. – 2 p.m.

Telephone: 232-8488

Items received: Yard waste, appliances, large items, tires (up to four with no rims; \$1 each for more than four passenger tires with DEQ permit; \$5 each for tractor-trailer tires with DEQ permit; no off-

road or oversized tires).

Recycling: Glass bottles, cardboard, aluminum cans, and newspapers

East Richmond Road Landfill & Convenience Center

3800 East Richmond Road

Hours: 7 a.m.-4:30 p.m. Monday-Friday and 9 a.m.-2 p.m., Saturdays

Telephone: 646-4706

Items received: Residential, household waste (no commercial or contractor items), yard waste, household waste, tires (up to four with no rims only), appliances, large items.

Free mulch & firewood available

Free Mulch

Just bring your vehicle to our landfill site at East Richmond Road and fill 'er up. You can get there from Government Road, then north on Jennie Scher Road, then left on East Richmond Road. The entrance is on the left. You can also get there through Church Hill. Check your city map or call 3-1-1 for help. If we aren't tied up with other work when you come by, we will help you load it. You can call (804) 646-4706 before you come to see if we can help. Bring your pitchfork just in case. We have plenty of it so no need to call before you come. We are open Monday - Friday, 7am - 4:30 pm. and Saturday, 9am - 2pm. Give yourself plenty of time to load up before we close. We also now offer leaf mulch, which is recognized as a wonderful soil additive.



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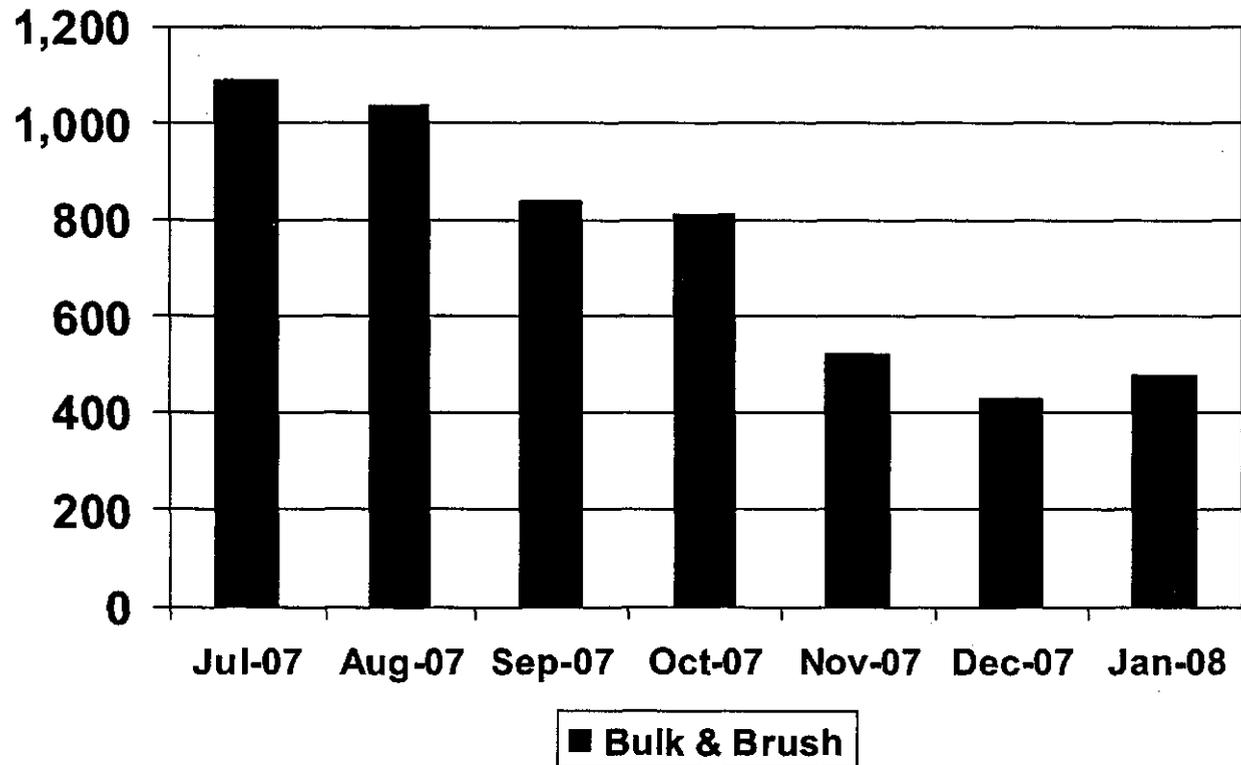
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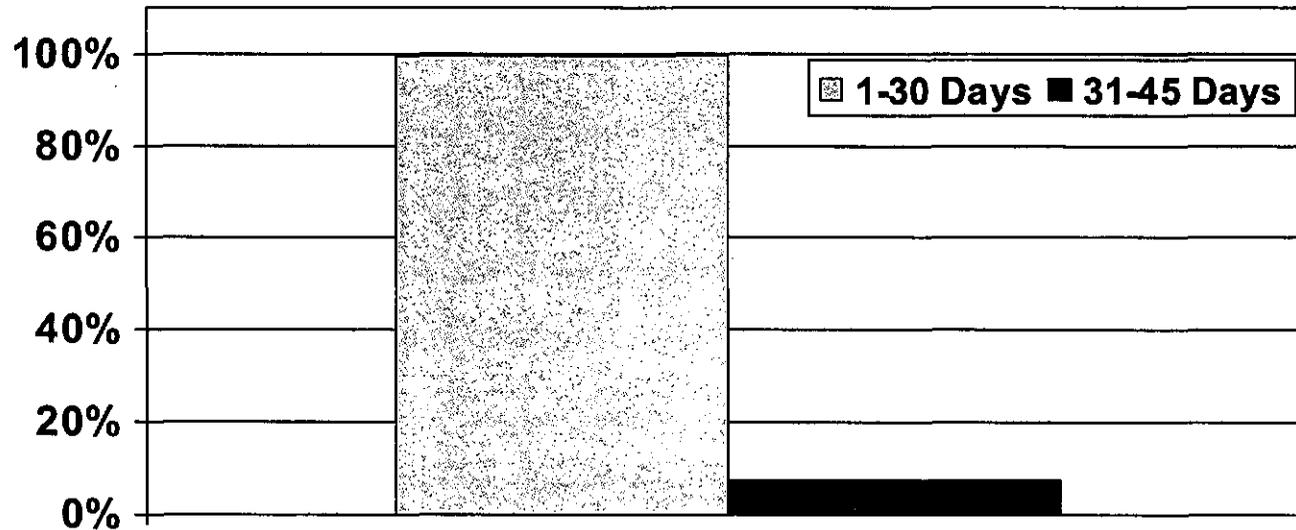


**City of Richmond
Refuse Collection**
District 1 - Monday
District 2 - Tuesday
District 3 - Wednesday
District 4 - Thursday
District 5 - Friday

Department of Public Works – Operations
Bulk & Brush Collection 2008
(Bulk/Brush Collection Requests by Month; Total 5,192)



Department of Public Works – Operations
Bulk & Brush Collection Requests,
Time to Completion FY 2008
(Target = 90% completed within 30 days)



Thus far in FY 08, virtually all bulk & brush collection requests have been completed within the targeted timeframe.

Combined Sewer System Report for 2008

APPENDIX 10-4

Street Sweep

CITY OF RICHMOND, VIRGINIA
DEPARTMENT OF PUBLIC UTILITIES
NINE MINIMUM CONTROLS REPORT

YEARLY
STREET CLEANING SUMMARY

YEAR: 2008

MONTH: January-December

GENERAL RESIDENTIAL ROUTE	CURB MILES SWEPT	TONNAGE REMOVED
SEE ATTACHED ROUTE SCHEDULES	22,000	21,279

SIGNATURE: Wade Taylor

Street Sweeping

The Department of Public Works Division of Environmental Maintenance sweeps and flushes the City's streets. We recognize the importance of this task, both to our customers and the environment.

Each year, as approximately 22,000 lane-miles of streets are swept, tons of debris are kept from entering the stormwater system and, subsequently, our local waterways. Due to the nature of our equipment, only streets with curbs and gutters are routinely swept. Following are some additional points to keep in mind about street sweeping:



- Obstacles in the sweeper's path hinder its operation. Items such as refuse containers, bikes, portable basketball goals, and piles of yard debris should be moved during sweeping periods.
- "No Parking" signs must be obeyed. Vehicles blocking the path of the sweepers will be towed.
- The sweeping schedule may be affected by adverse weather, equipment failure, or other unforeseen events.

2009 Residential Street Sweeping Schedule

Area	Dates
Fulton Hill / Church Hill	March 9-13, June 1-5, Aug 24-28
Church Hill	March 16-20, June 8-12, Aug 31 - Sept 4(H)
Bellevue/ Sherwood Park/ Washington Park	March 23-27, June 15-19, Sept 7-11
Northside /Ginter Park	March 30 - Apr 3, June 22-26, Sept 14-18
Lower West End	April 6-10, June 29-July 3(H), Sept 21-25
Bainbridge/ Bellmeade/ Davee Gardens	April 13-17, July 6-10, Sept 28 - Oct 2
Woodland Heights/ Swansboro/ Westover Hills	April 20-24, July 13-17, Oct 5-9
Far West End	May 4-8, July 20-24, Oct 12-16
Downtown/ Carver/ NewTowne / Millie Jones	May 18-22, July 27-31, Oct 19-23
Neighborhood subdivisions	May 18-22, July 27-31, Oct 19-23
West of the Boulevard/ Museum District	May 11-15, Aug 3-7, Oct 26-30
The Fan	Apr 27 - May 1, Aug 10-14, Nov 2-6
Highland Park	May 25-29(H), Aug 17-21, Nov 9-13

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Combined Sewer System Report for 2008

APPENDIX 11-1

Newspaper Coverage

Shockoe drainage plan hits milestone / Storm water project's first phase is finished 18 months after flood

Richmond Times - Dispatch - Richmond, Va.
Author: KIRAN KRISHNAMURTHY
Date: Feb 28, 2008
Start Page: B.2
Section: AREA/STATE
Text Word Count: 455

Document Text

The rainwater that flooded Shockoe Bottom during even moderate showers should now move more swiftly underground.

Richmond Mayor L. Douglas Wilder yesterday announced the completion of the first of two phases of \$20 million in storm water drainage improvements intended to accommodate rain such as that of Aug. 15, 2006 - about 3 inches in 75 minutes.

Wilder called for the improvements about a week after that storm, which came two years after the remnants of Tropical Storm Gaston devastated the Bottom in 2004.

City officials yesterday said the first phase, which was budgeted at \$5.3 million, came in at \$3.7 million, and finished two weeks ahead of schedule.

"Anything we put our shoulder to, we do, whether we've got support or not," Wilder said after a news conference at Main Street Station. Wilder accused the council of stalling; some council members said at the time of the August 2006 flooding in the Bottom that they wanted to evaluate the costs and ensure money wasn't taken from other projects to fix the problems.

David White of SWA Architects, who recalled having 8 feet of water in his Shockoe Bottom office basement, said at yesterday's event that he had repeatedly talked with Wilder but didn't expect anything to be done. "Thank you for listening and taking action," he said.

David Napier, owner of Old City Bar and president of the Shockoe Bottom Neighborhood, said, "Your car won't be gone unless you park it illegally. It won't be washed away."

Although the improvements are unlikely to spare the Bottom from flooding in another Gaston-like deluge, "we certainly have the ability to mitigate a Gaston," said Chris Beschler, the city's utilities director.

The first phase of improvements is intended to accommodate water from a 25-year rain, Beschler said, or one that has a 4 percent chance of occurring in any given year. The entire project is aimed at accommodating 50-year rains, or those that have a 2 percent annual chance of occurring.

By comparison, the remnants of Tropical Storm Gaston, which washed away cars in the Bottom, were 100-year rains, which have a 1 percent chance of occurring in any given year.

The first-phase improvements include installing 93 new curb drains to better capture water than old smaller ones that in some cases weren't in effective locations.

Officials also added three valves to a major storm water line that carries rain from northern Richmond to the city's wastewater treatment plant in the South Side. Previously, that major line overflowed into the underground collection point for Shockoe rains, resulting in flooding in the Bottom.

The second phase of improvements is scheduled to be completed in early 2009.

Contact Kiran Krishnamurthy at (804) 649-6810 or kkrishnamurthy@timesdispatch.com.

Credit: Times-Dispatch Staff Writer

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Wilder proposal raises water, sewer fees / Still, the increase would be less than was approved previously in Richmond

Richmond Times - Dispatch - Richmond, Va.
Author: KIRAN KRISHNAMURTHY; DAVID RESS
Date: Mar 21, 2008
Start Page: B.8
Section: AREA/STATE
Text Word Count: 553

Document Text

Richmond residents will pay more for water and sewer service in the coming year under Mayor L. Douglas Wilder's budget proposals.

Administration officials presented the proposed rates to a City Council committee yesterday.

An average city household using 700 cubic feet of water per month:

– Now pays \$27.26 per month. The household would pay \$28.54 per month under the mayor's proposal, compared with \$28.90 if the rate increase approved last year were left unchanged.

– Currently pays \$39.71 per month for sewer service. The household would pay \$42.01 per month under the mayor's proposal, compared with \$41.89 if the previously approved rate increase is left intact.

Linwood Norman, a spokesman for the mayor, declined to comment when asked how the proposed increases square with Wilder's contention that rates for many customers would fall.

New rates also could come on top of a proposed new charge to improve the city's stormwater system, which is also before the council for consideration.

If the stormwater system is approved, city homeowners and other property owners could expect to get bills in August for new fees ranging from \$45 to \$135 per year.

Before that, in June, all property owners also would receive notices of what their stormwater assessment would be, based on the square footage of property surfaces that are impervious to water - roofs, driveways and parking lots that allow water runoff.

Most city households fall into a category that would pay \$90 per year, based on 1,000 to 2,400 square feet of impervious surface, according to the administration.

Businesses, nonprofit organizations and city schools also would be assessed, as would state and federal government properties, said Chris Beschler, the city's deputy administrative officer for operations.

Each would pay a set rate for every 1,425 square feet of impervious surface - the equivalent of the average for a single-family home in the city, or roughly the amount for a 40-by-25 foot house with a 12-by-15-foot shed and a small patio or short paved driveway.

That set rate for nonprofits, such as churches, would be \$45 for each 1,425 square feet. For apartment complexes and commercial and industrial users, the rate would be \$90 per increment. In other words, a business with 14,250 square feet of roof and parking space would pay \$900 per year.

Councilman Bruce W. Tyler asked Beschler whether the administration is sure that state and federal governments would pay a stormwater fee, saying he didn't want the city to be the first to try to enforce such a fee and face the possibility of an expensive lawsuit.

"Have we had the hard conversation with them?" Tyler asked.

"This is in accordance with state law. They are required to pay," said Beschler, who noted that some Hampton Roads-area cities also have such fees. One of Beschler's assistants told council members that the administration has been unsuccessful so far in talking to the Virginia Department of General Services, which oversees state-owned buildings.

Councilwoman Kathy C. Graziano also suggested the administration reach out to business customers, who could also see their water rates go up 17.6 percent in the first year of a proposed five-year rate increase.

"We will reach out to them," Beschler said.

Contact Kiran Krishnamurthy at (804) 649-6810 or kkrishnamurthy@timesdispatch.com.

Contact David Ress at (804) 649-6051 or dress@timesdispatch.com.

Credit: Times-Dispatch Staff Writers

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Abstract (Document Summary)

Each would pay a set rate for every 1,425 square feet of impervious surface - the equivalent of the average for a single-family home in the city, or roughly the amount for a 40-by-25 foot house with a 12-by-15-foot shed and a small patio or short paved driveway.

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Battery Park couple settle case / They receive \$200,000 in suit against Richmond regarding flooded home

Richmond Times - Dispatch - Richmond, Va.
Author: MICHAEL MARTZ
Date: Mar 27, 2008
Start Page: A.1
Section: AREA/STATE
Text Word Count: 598

Document Text

Dan Nicholson and Beth White became parents one week before a tropical storm, a defunct Richmond landfill, and a collapsed city sewer pipe combined to make them homeless.

Almost 19 months later, Nicholson and White have ended a bitter legal battle with Richmond, accepting a \$200,000 settlement for the destruction of their Battery Park home by sewage-fouled floodwaters during Tropical Storm Ernesto.

Roughly half the settlement will pay off the mortgage on their home at 2601 Montrose Ave., directly across from the park in North Richmond. A quarter of the money will go to their lawyer, Steven S. Biss.

The rest, less than \$50,000, is all that's left of a lawsuit for \$10 million in punitive damages and \$350,000 to compensate for their losses.

"We're very unhappy with it," White said yesterday from the family's new home, a house in Staunton that is owned by her brother. "We're really upset about it."

The family decided to accept the settlement instead of proceeding to trial next week in Richmond Circuit Court because, even if they won, they expected a protracted appeal and uncertain outcome.

"We basically felt the risk outweighed the benefit of going to court," she said.

Richmond Mayor L. Douglas Wilder said the city paid the family \$180,000 for the house and \$20,000 for lost belongings. The city will demolish the house and incorporate the property into an expanded park.

"It was settled for just about what we were going to pay" before the lawsuit was filed, the mayor said in an interview yesterday.

Wilder also said the settlement marks the end of Richmond's recovery from the Battery Park flooding, which should be prevented in the future by the completion of a new sewer line last year that was financed primarily by federal and state disaster relief.

"We have pretty much settled everything in Battery Park," he said.

However, the mayor said no credit is due to the City Council or 3rd District Councilman Chris A. Hilbert, whom he criticized for doing more to hurt the administration's efforts than help.

"We are moving forward in spite of council," said Wilder, who is facing re-election this year along with council members. "Battery Park is fixed long term, not a patch."

In contrast, White faults the mayor for her family's plight.

The ordeal began for White and Nicholson a week after the birth of their daughter, Arcadia. They were forced to evacuate their home, as were 71 other families flooded out of their apartments and homes in the neighborhoods around Battery Park on Sept. 1, 2006.

It was the second time that the couple had lost their Montrose Avenue home to flooding. They rebuilt after the first flood, which occurred when the remnants of Tropical Storm Gaston stalled over Richmond in August 2004 and swamped low-lying areas of the city.

The flooding began before Ernesto even arrived, as sewage draining from a huge swath of North Richmond backed up from a massive sewer line that had collapsed more than 80 feet below a municipal landfill that the city had closed two

decades earlier.

White and Nicholson filed suit in November 2006, alleging gross negligence by the city for creating the landfill and failing to inspect and maintain the sewer system properly.

Once the suit was filed, Richmond officials took the family off the list for buyouts, while continuing to pay rent for the family's temporary housing. At the end of last year, with the new sewer complete, the city ended the family's rental subsidy.

-- Contact Michael Martz at (804) 649-6964 or mmartz@timesdispatch.com.

ILLUSTRATION: PHOTO

Credit: Times-Dispatch Staff Writer

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Abstract (Document Summary)

Almost 19 months later, Nicholson and White have ended a bitter legal battle with Richmond, accepting a \$200,000 settlement for the destruction of their Battery Park home by sewage-fouled floodwaters during Tropical Storm Ernesto.

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James beckons anglers / Cleaner, accessible river is a big draw, although fecal bacteria, PCBs remain

Richmond Times - Dispatch - Richmond, Va.

Author: REX SPRINGSTON

Date: May 13, 2008

Start Page: B.1

Section: AREA/STATE

Text Word Count: 756

Document Text

Willie Cannon first cast a line in the James River in 1956, but for him the good times are now.

"For 'most 50 years, I've been fishing this river," said Cannon, 70, of Richmond. "The water is cleaner than it's ever been, and the fishing is much better. And I really enjoy eating the fish."

As Cannon spoke, dozens of people - black, white, Hispanic, Asian, older people and worm-digging children - pulled in fish after fish, some landing three and four at a time, from the James at Ancarrow's Landing in South Side.

Dozens more fished across the river just east of downtown's skyscrapers, and still others fished from boats. Canada geese swam with their downy chicks, and purple wildflowers bloomed near the water.

In an increasingly popular rite of spring, thousands of people flock to the river from March to June to catch migrating shad, herring and other fish that bunch up at the rapids near downtown to spawn.

The popularity of city fishing seems to have hit a high this year, aided by good weather, word-of-mouth advertising and lots of fish produced by an increasingly healthy river.

"I think we had the biggest crowds this year," said Gary Martel, fisheries director for the state Department of Game and Inland Fisheries. The river drew about 500 people some days, he said.

It's rare, particularly in the East, to find such high-caliber fishing in an urban area, Martel said. "You've got this extraordinary fishery right here in Richmond."

A March-through-May survey by the game department in 2006 found that anglers spent 31,000 hours in just one small stretch - from the Mayo Bridge to Ancarrow's Landing, 1 1/4 miles downriver. That's the equivalent of nearly 8,000 people fishing for four hours each.

The anglers spend roughly \$250,000 during the three months, Martel said.

One of city fishing's biggest attractions is its proximity.

"I can be at home and in 20 minutes, I can be here," Tracy Hunter of western Henrico County said as he put in his boat at Ancarrow's.

Then there is the sheer abundance of fish. They include hickory shad, American shad, river herring and white perch. On top of that, such predators as 30-pound striped bass and 70-pound blue catfish feast on those smaller migrating fish.

"You've got kind of a feeding frenzy," Martel said.

With anglers at the top of the food chain.

Hunter, 66, said he likes to fly-fish for hickory shad, a roughly 2-pound fish that puts up a fight. If you come across a large school, he said, you can catch them on "almost every cast."

About a half-dozen fishing guides worked the James when Mike Ostrander entered the business in 2000. Today, Ostrander said, there are perhaps two dozen.

Thirty years ago, the James was virtually an open sewer - stinking, algae-covered and polluted with human waste and industrial chemicals. Tough federal and state pollution laws in the 1970s put the river on a comeback.

In recent years, the James has gotten even cleaner because of improvements to Richmond's and Lynchburg's old sewer systems and because of the state's increasingly tight restrictions on releases from sewage plants and industries, said Bill Hayden, a spokesman for the state Department of Environmental Quality.

Still, the river has problems. The stretch from Richmond to Hopewell is tainted by fecal bacteria, caused by animal waste and occasional sewage overflows.

Thoroughly cooking fish will kill the bacteria, health experts say.

Other pollutants include toxic chemicals called PCBs, which are believed to cause cancer.

State health officials have issued various fish-eating advisories that boil down to: Don't eat James River fish often, and don't eat large fish, which accumulate more of the chemicals.

Cannon likes to smoke white perch, shad and herring so he can eat them two or three times a week all year. Fish and grits is a favorite.

"So far I'm not worried about none of that" pollution, Cannon said. "Whatever thing is going to happen to you is going to happen to you anyway."

Fishing is a good way of eating inexpensively, Soeung Seng, 65, of Midlothian, said between casts of her rod at Ancarrow's. "Anytime I want to eat, I take it out [of the freezer] and deep-fry it."

Alisha Shabazz, 6, said she likes to catch fish but not eat them. "They stink when they come out of the water."

Consumption alerts

For fish-eating advisories, go to www.vdh.virginia.gov and search for "fish."

— Contact Rex Springston at (804) 649-6453 or rspringston@timesdispatch.com.

ILLUSTRATION: PHOTO

Credit: Times-Dispatch Staff Writer

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Abstract (Document Summary)

In recent years, the James has gotten even cleaner because of improvements to Richmond's and Lynchburg's old sewer systems and because of the state's increasingly tight restrictions on releases from sewage plants and industries, said Bill Hayden, a spokesman for the state Department of Environmental Quality.

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Combined Sewer System Report for 2008

APPENDIX 11-2

CSO Overflow Reporting

CSO Outfall 002 Orleans - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	2				0.19	15
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.01	2
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

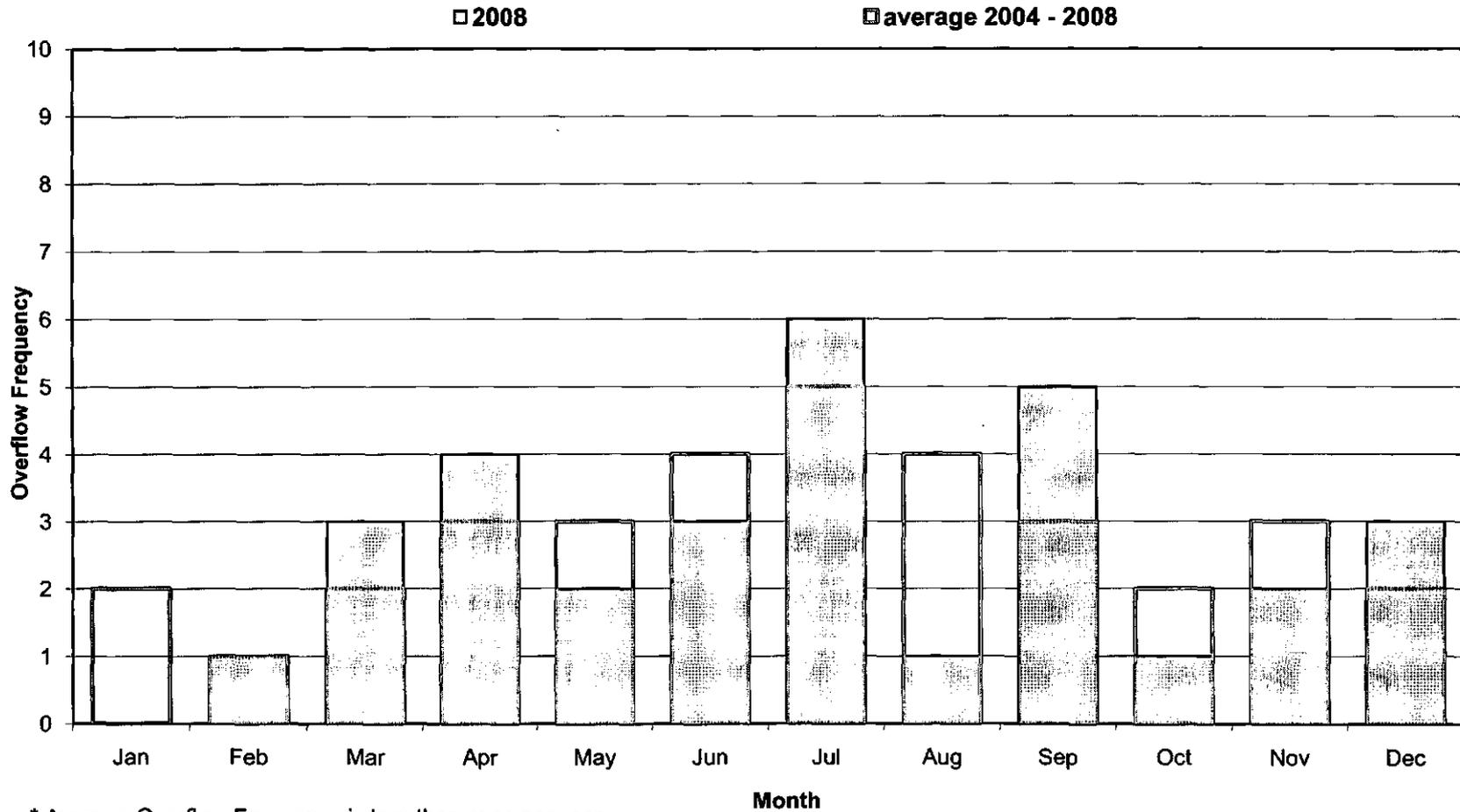
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	0.20	17

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 002 Orleans 2004 - 2008



CSO Outfall 003 Nicholson - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	2				0.13	15
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.00	1
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

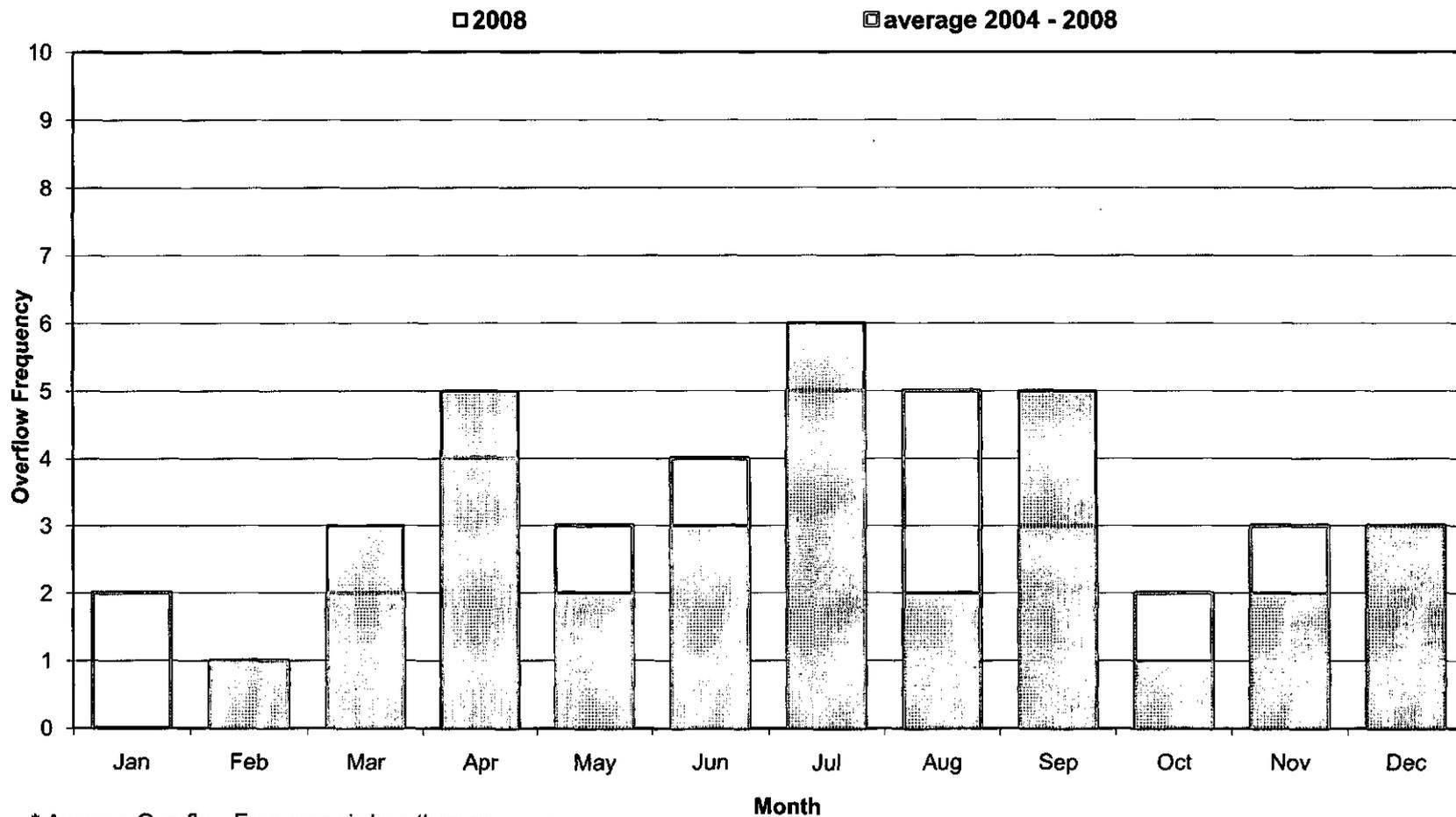
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	0.14	16

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 003 Nicholson 2004 - 2008



* Average Overflow Frequency is less than once per year

CSO Outfall 004 Bloody Run - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	2				0.71	17
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.04	2
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

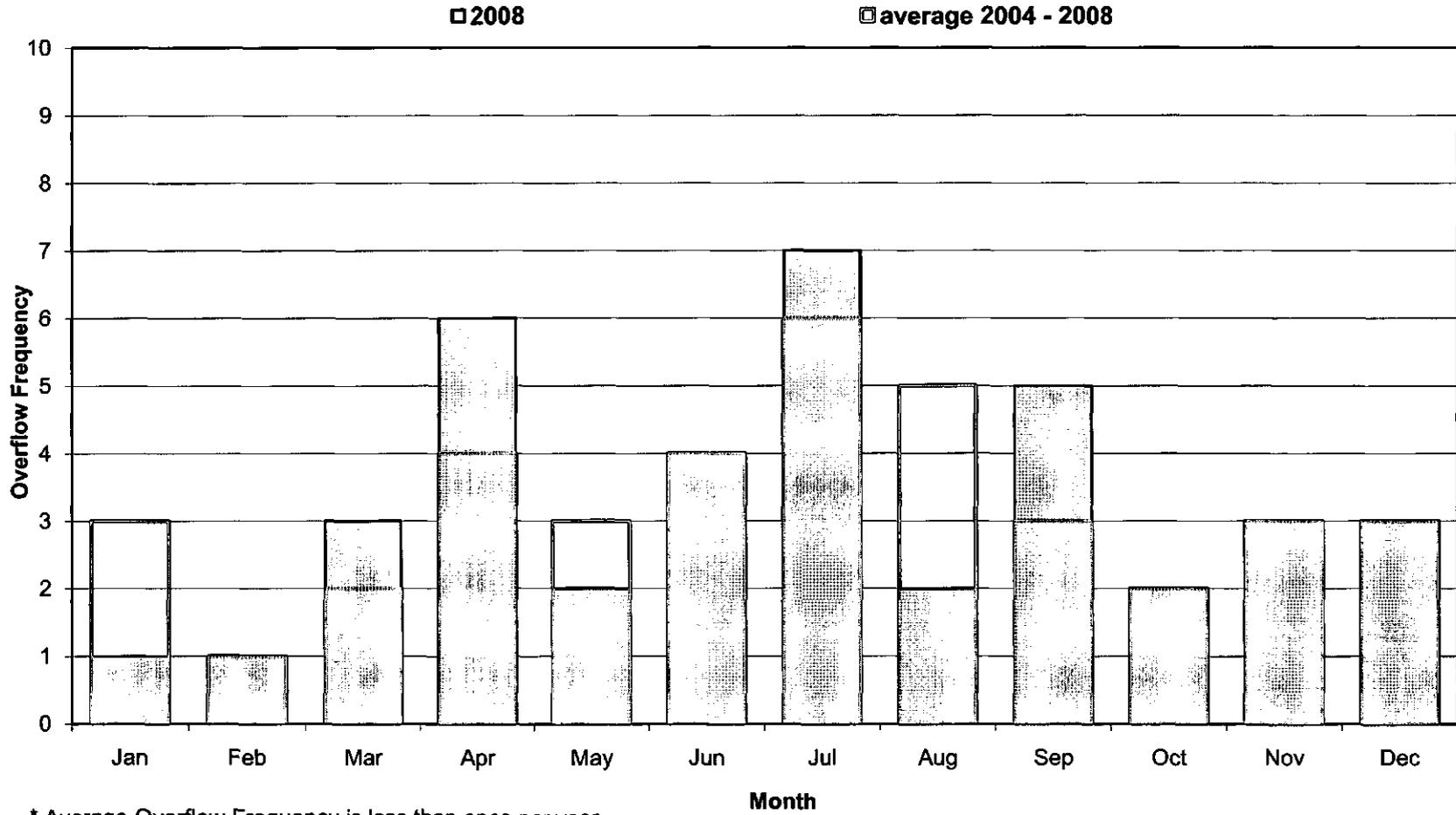
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	0.74	19

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 004 Bloody Run 2004 - 2008



* Average Overflow Frequency is less than once per year

CSO Outfall 005 Peach St. - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

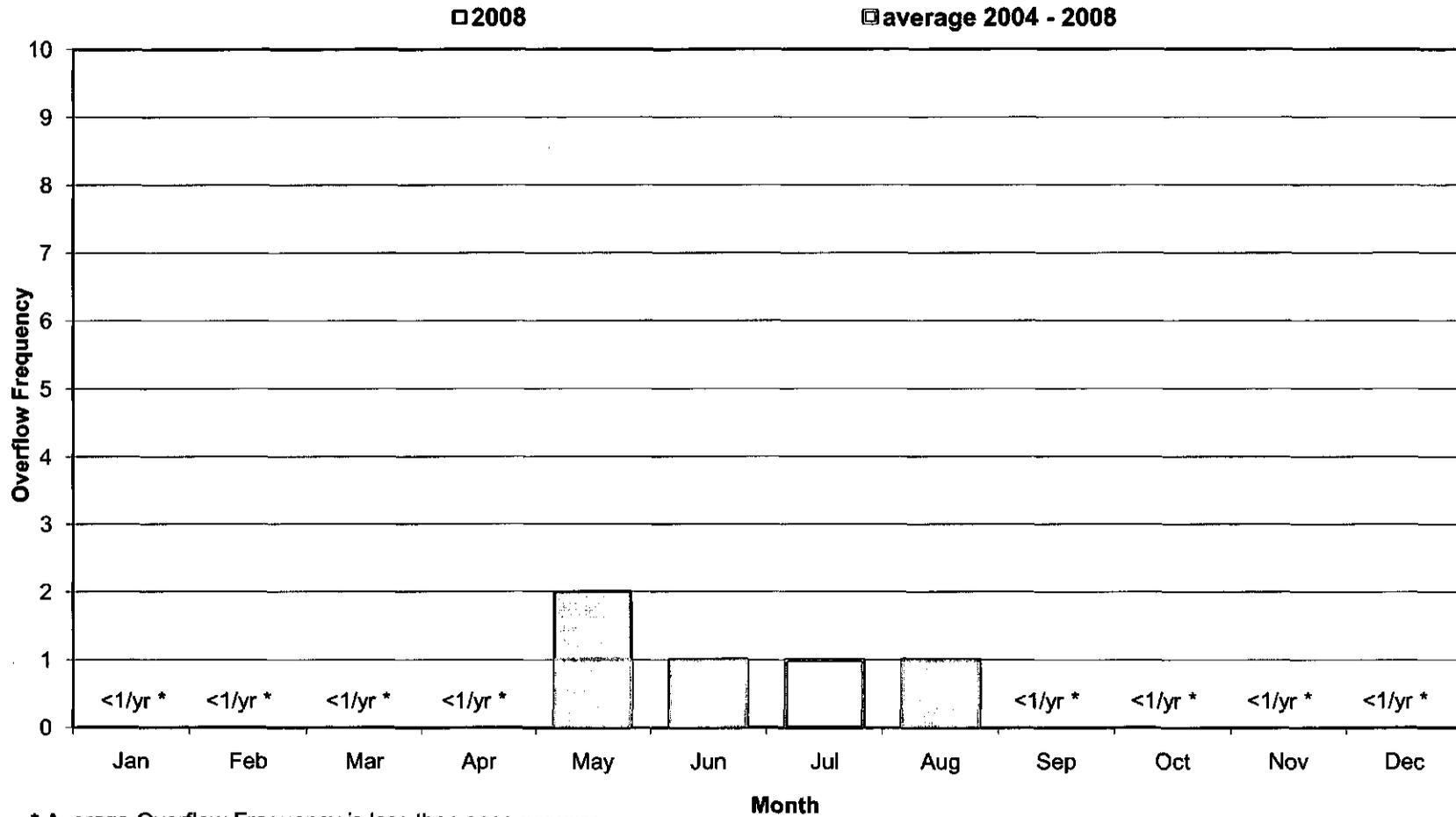
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 005 Peach Street 2004 - 2008



CSO Outfall 006 Shockoe - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08	1	2.98	34	0.32	249.27	45
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	2.25	27
12/17/08						
12/18/08						
12/19/08	1	0.08	5	0.03	0.44	5
12/20/08						
12/21/08	1	0.36	6	0.12	0.79	7
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

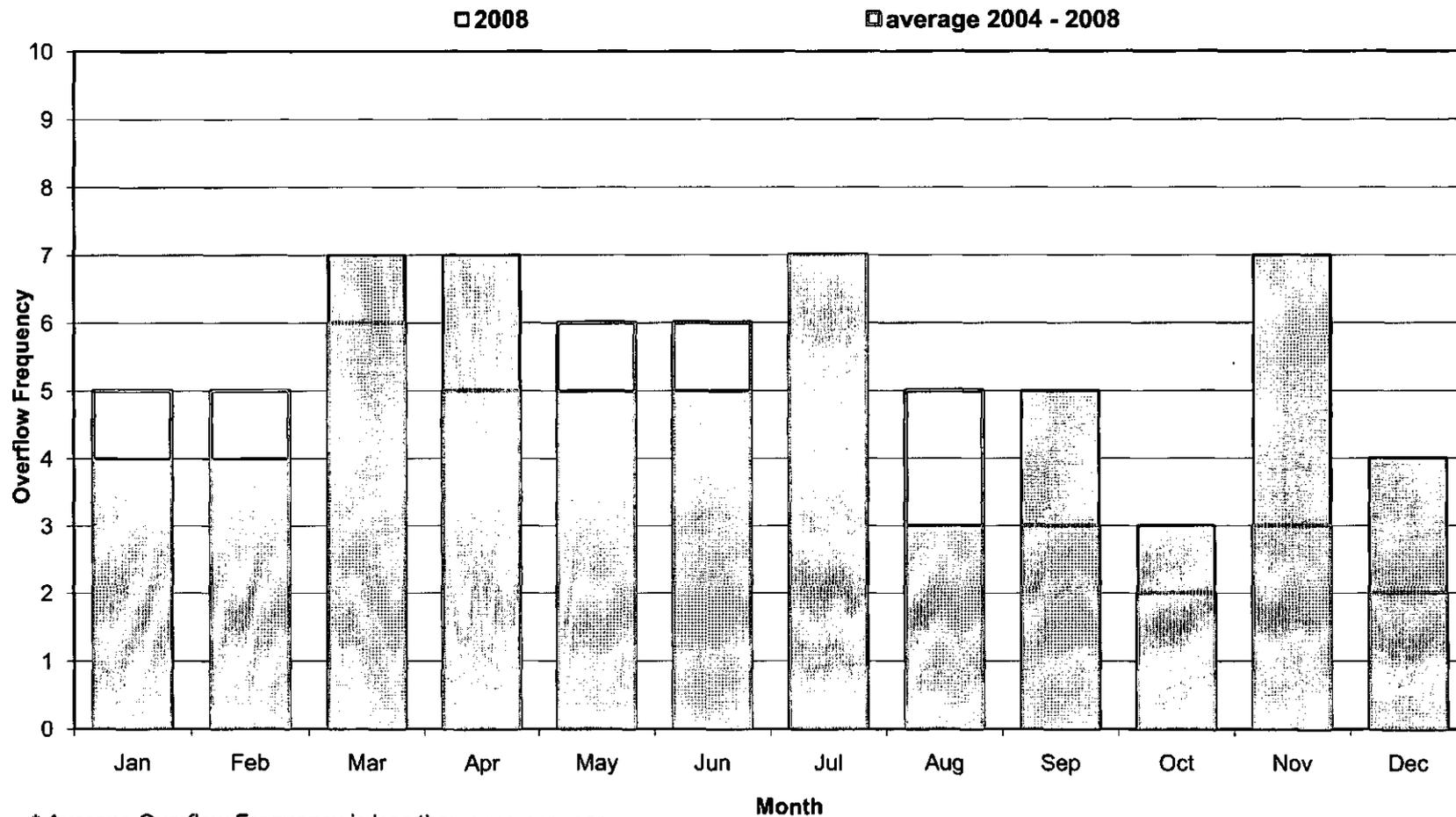
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
4	4.07	76	0.32	252.76	84

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 006 Shockoe 2004 - 2008



* Average Overflow Frequency is less than once per year

CSO Outfall 007 Byrd - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

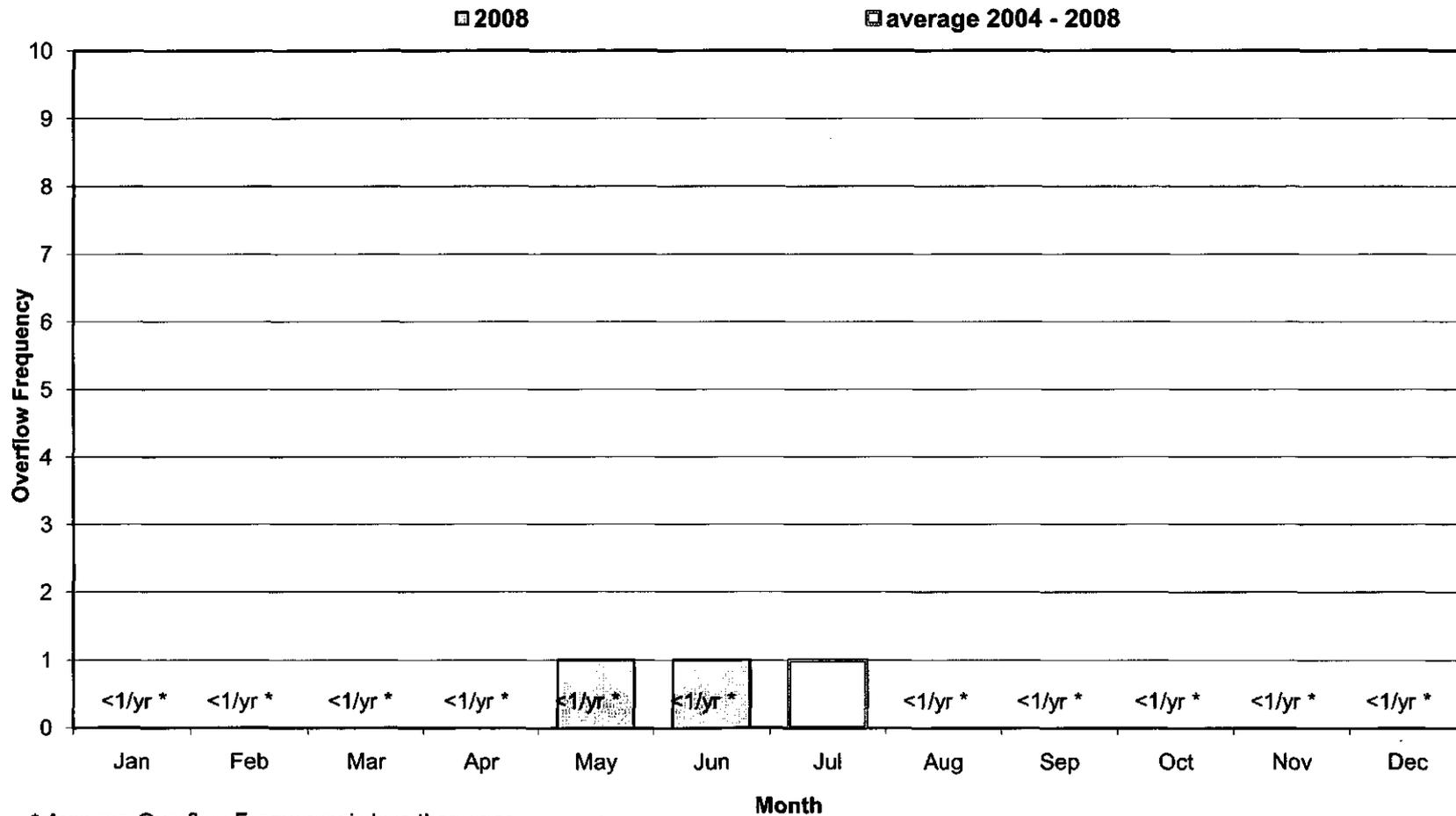
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 007 Byrd 2004 - 2008



CSO Outfall 008 6th Street - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

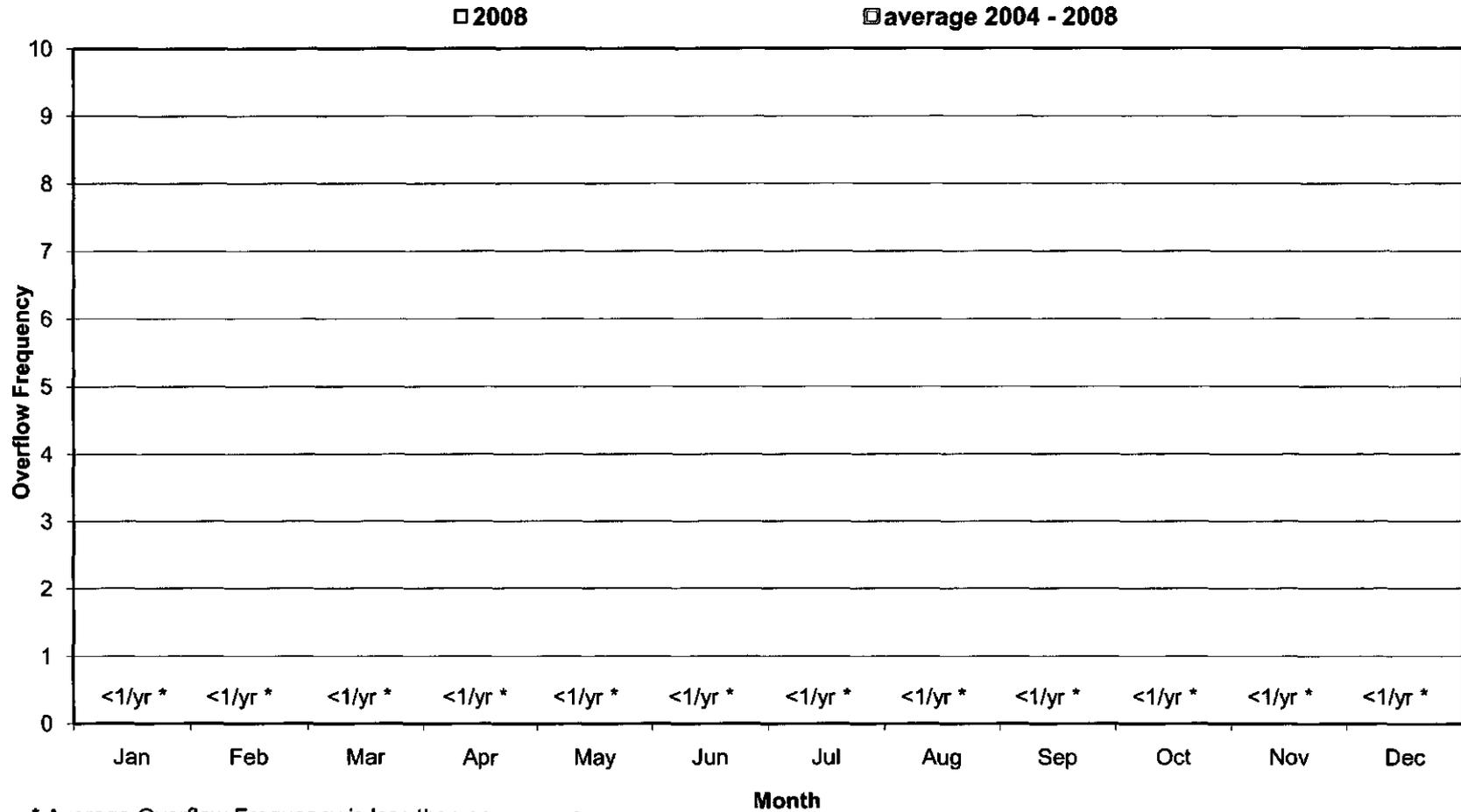
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 008 6th Street 2004 - 2008



CSO Outfall 009 7th St. - 2008

Rainfall and Overflow Model Summary

Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

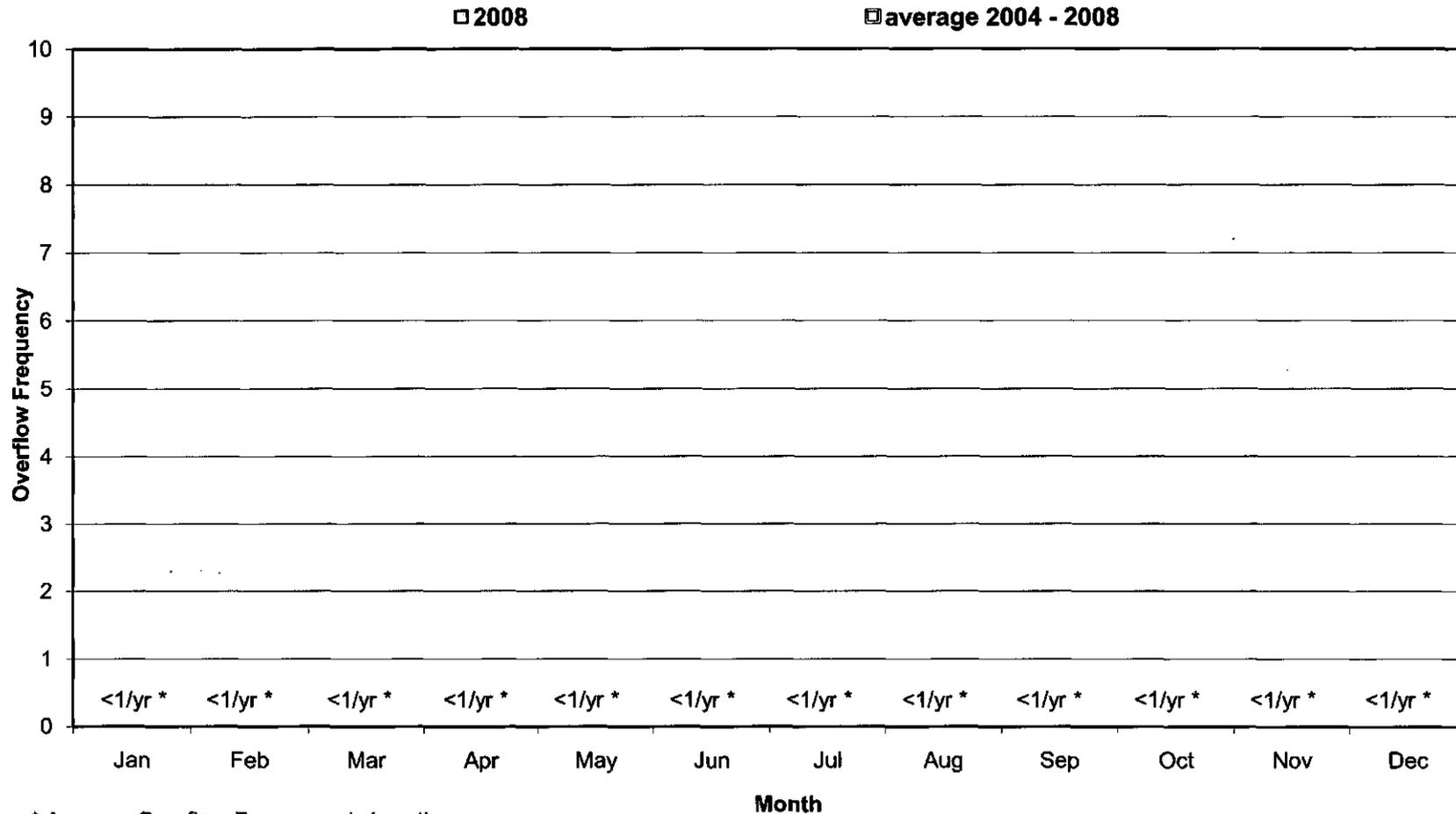
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 009 7th Street 2004 - 2008



**CSO Outfall 010 Gambles Hill - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008**

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

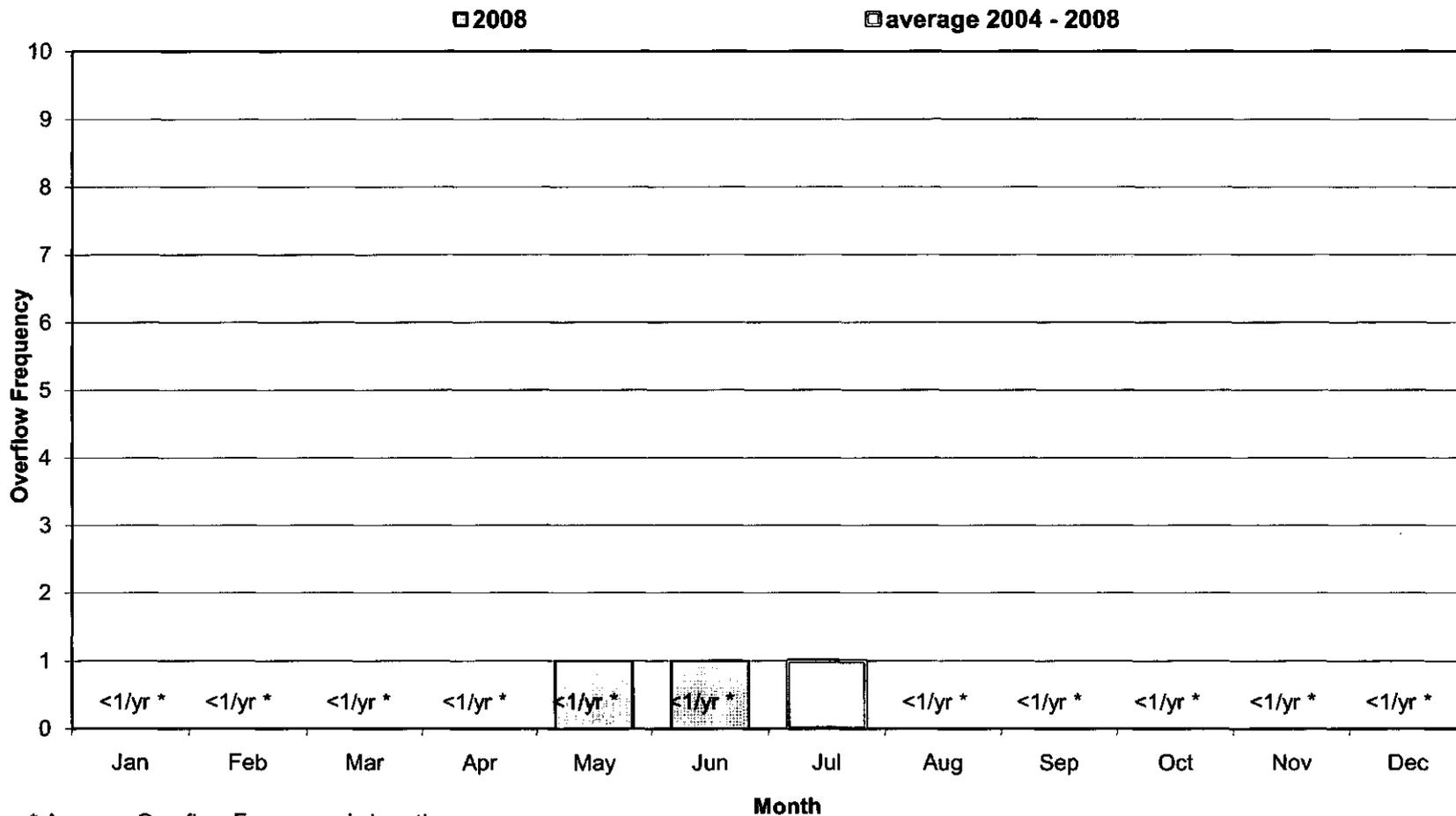
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 010 Gambles Hill 2004 - 2008



CSO Outfall 011 Park Hydro - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

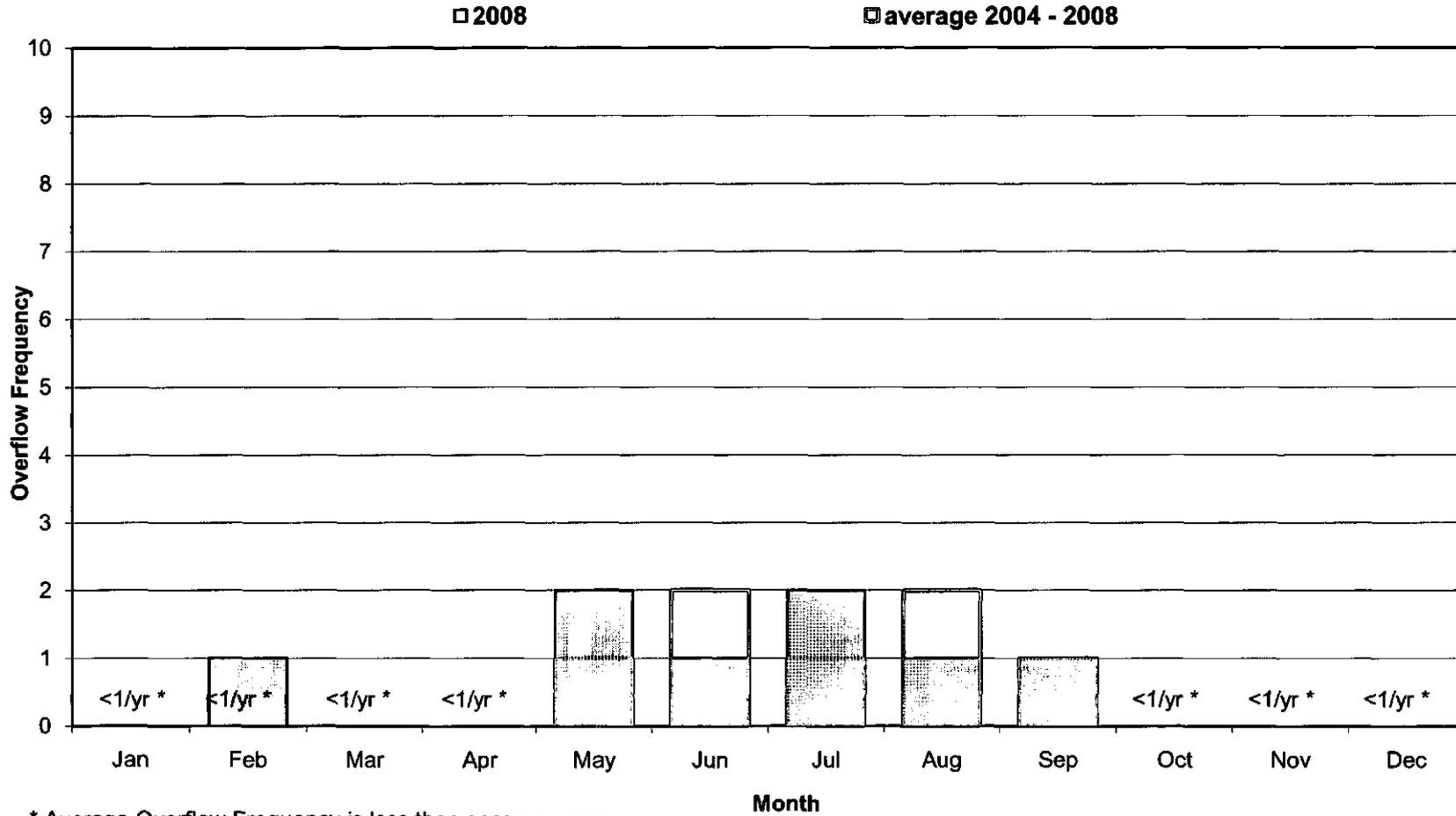
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 011 Park Hydro 2004 - 2008



CSO Outfall 012 Hilton St. - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	1				0.71	24
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.04	3
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08	1	0.36	6	0.12	0.01	2
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

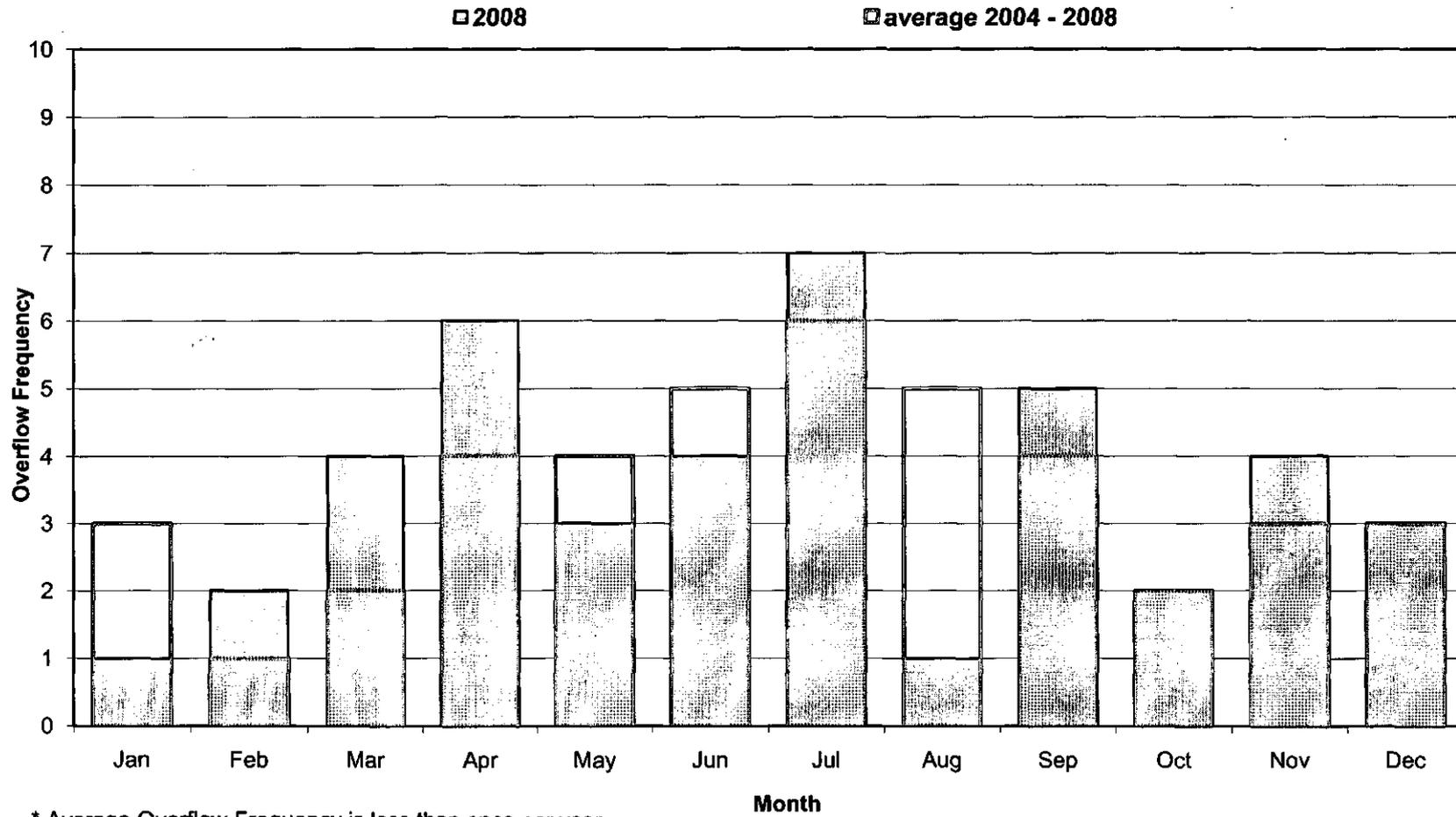
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	0.76	29

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 012 Hilton Street 2004 - 2008



CSO Outfall 013 Maury St. - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	3				0.07	8
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

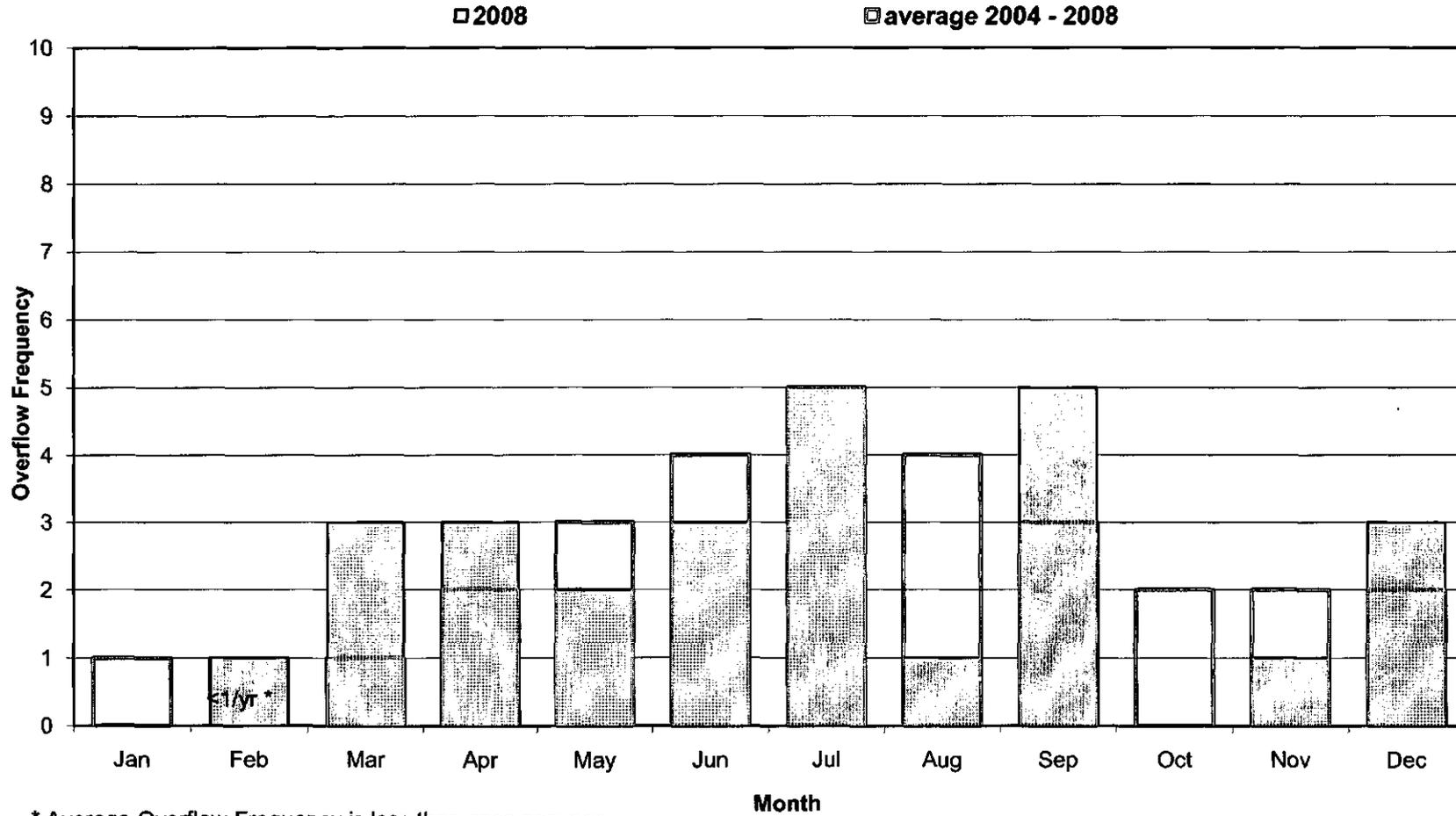
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	0.07	8

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 013 Maury Street 2004 - 2008



* Average Overflow Frequency is less than once per year

**CSO Outfall 014 Stockton St. - 2007
 Rainfall and Overflow Model Summary
 Current Month: December 2008**

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	1				0.22	2
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

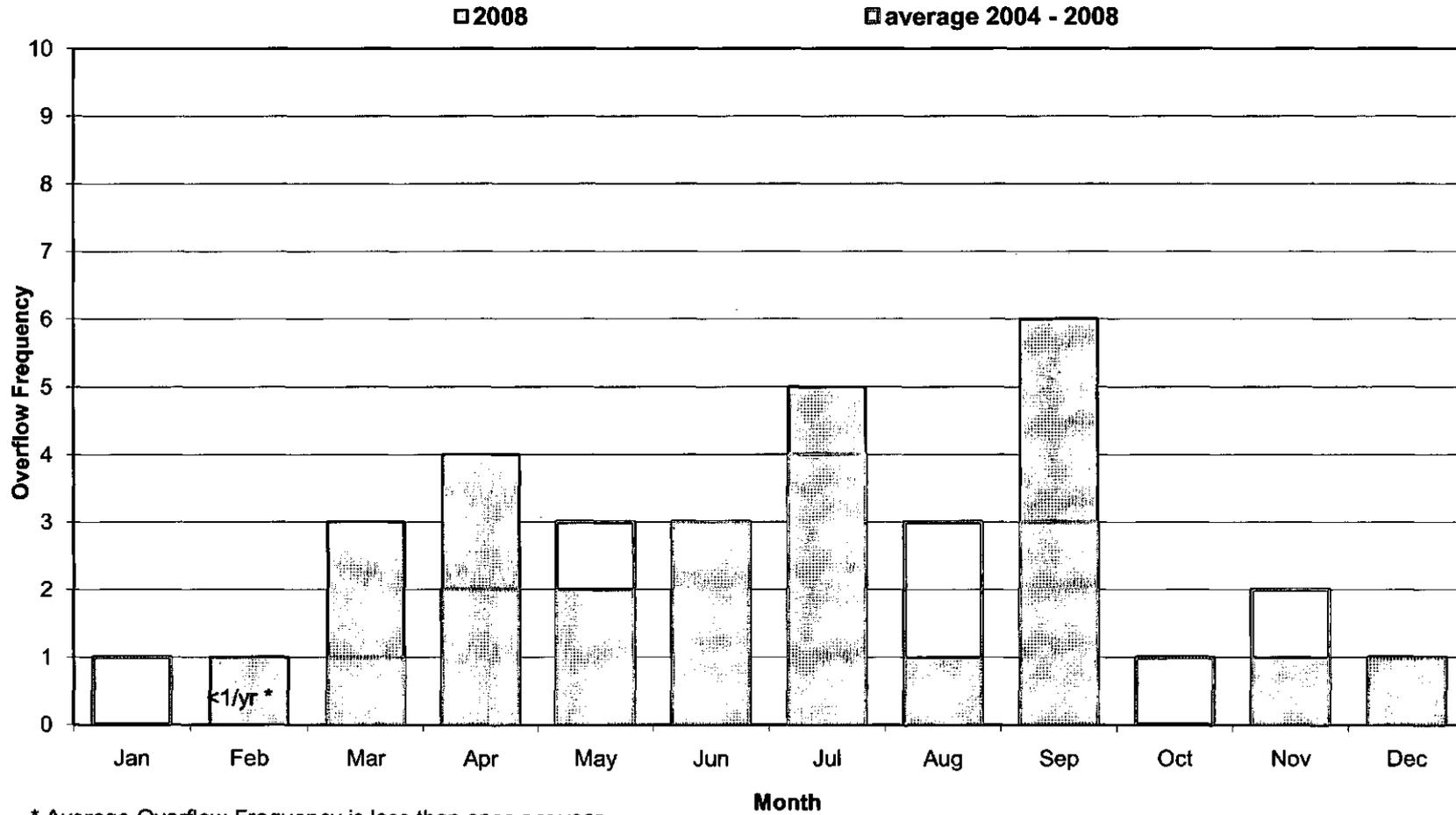
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
1	4.07	76	0.32	0.22	2

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 014 Stockton Street 2004 - 2008



CSO Outfall 015 Canoe Run - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

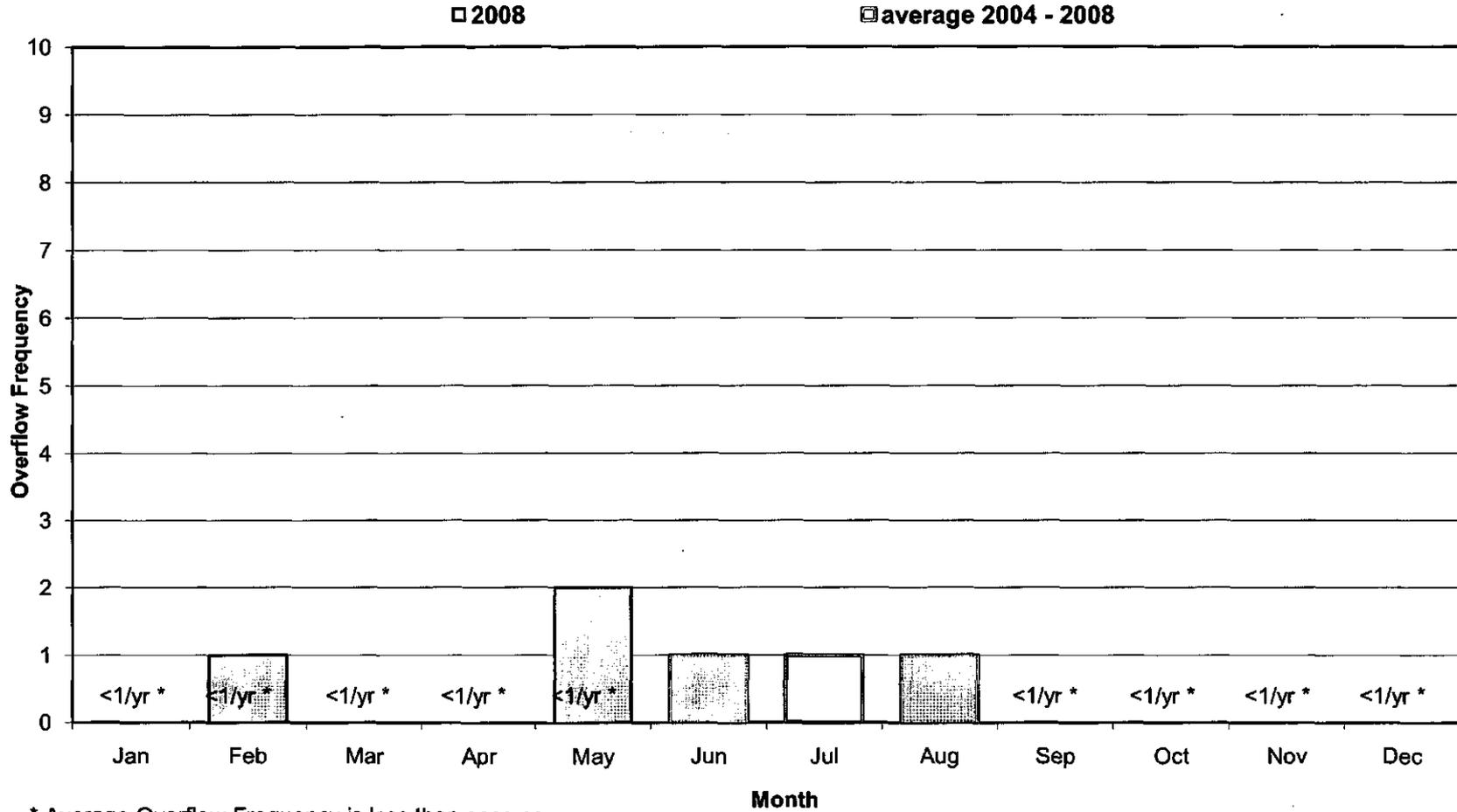
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 015 Canoe Run 2004 - 2008



CSO Outfall 016 Woodland - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

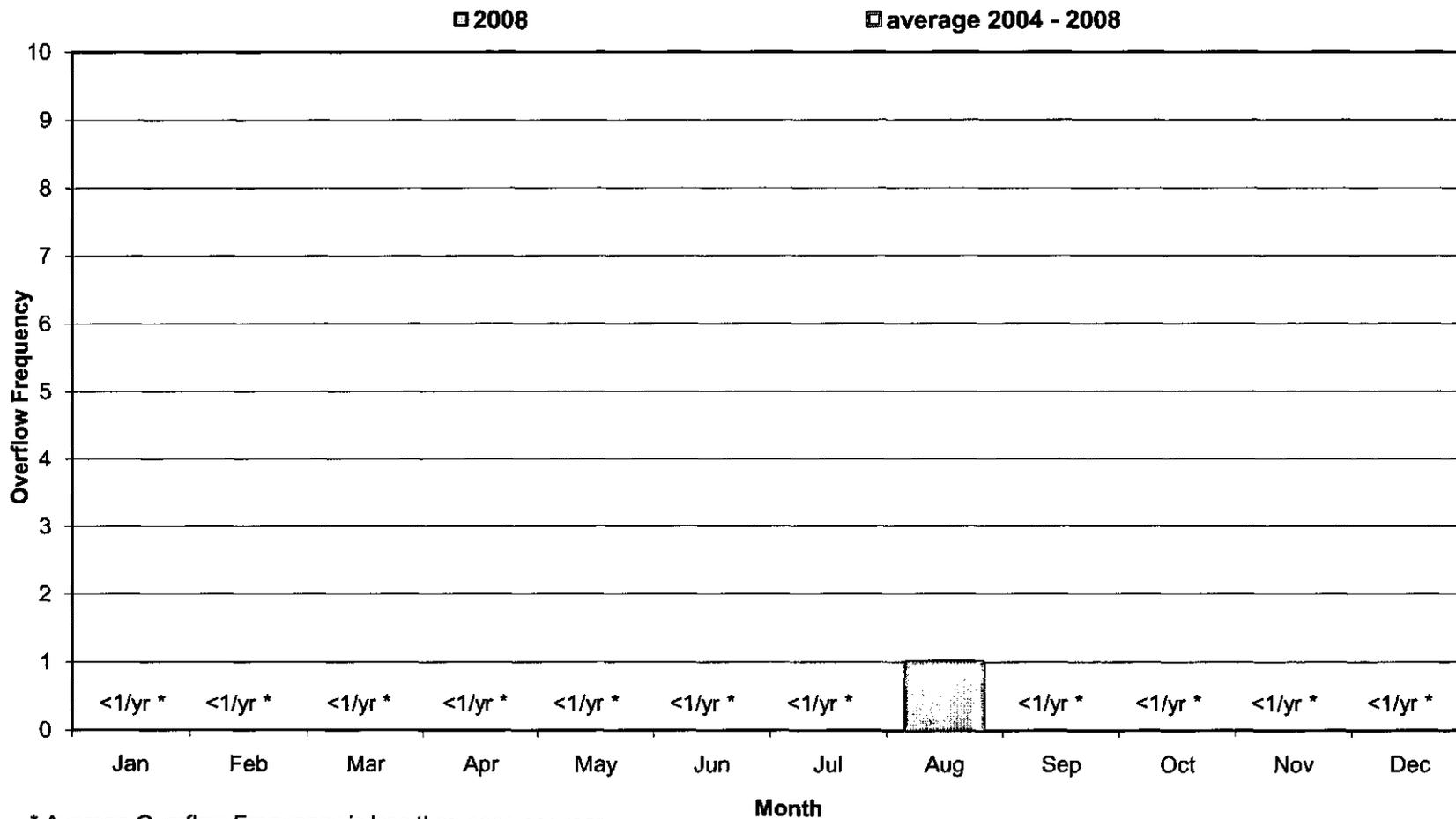
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 016 Woodland 2004 - 2008



**CSO Outfall 017 Reedy Creek - 2008
 Rainfall and Overflow Model Summary
 Current Month: December 2008**

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

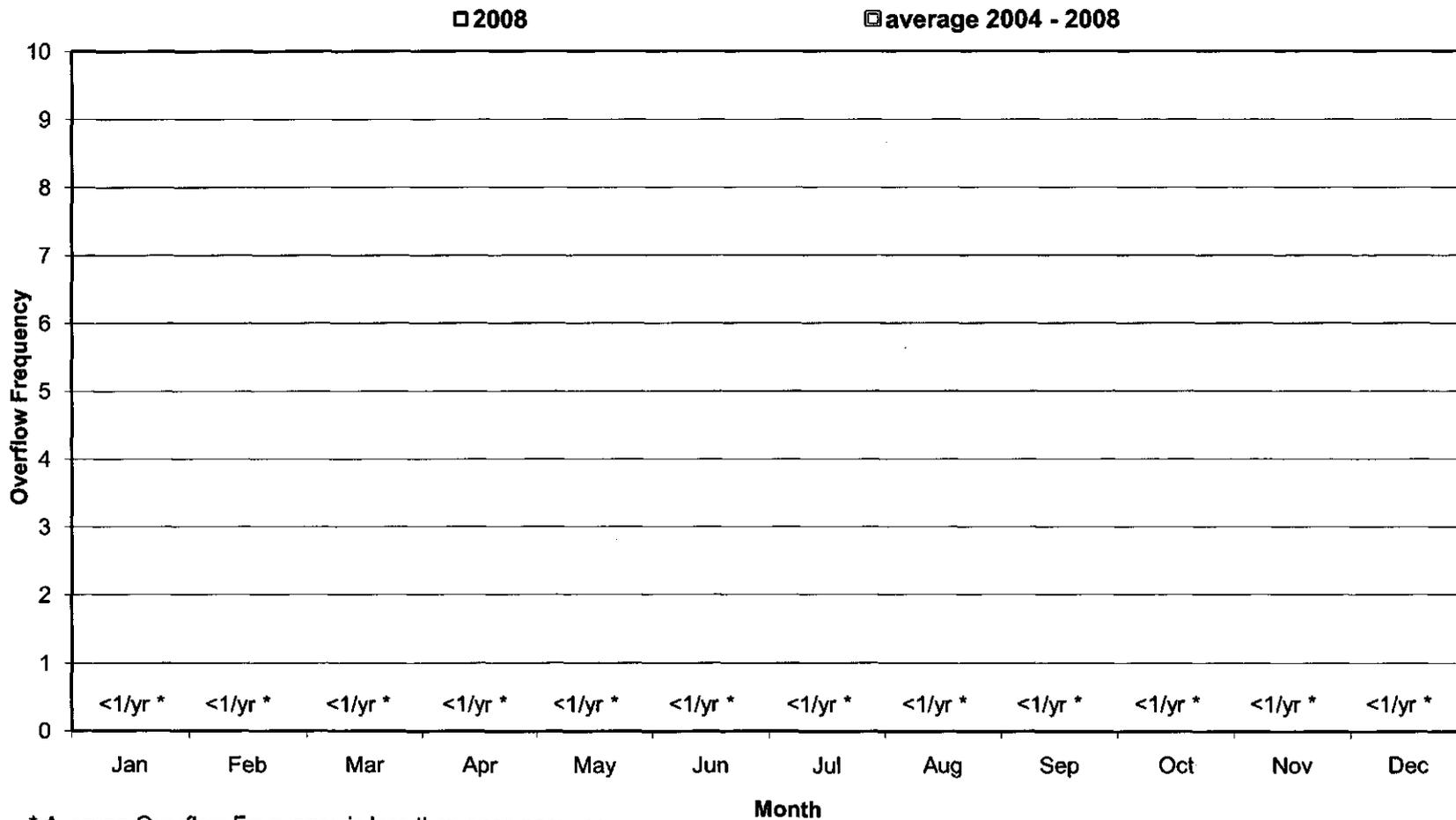
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 017 Reedy Creek 2004 - 2008



CSO Outfall 018 42nd Street - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

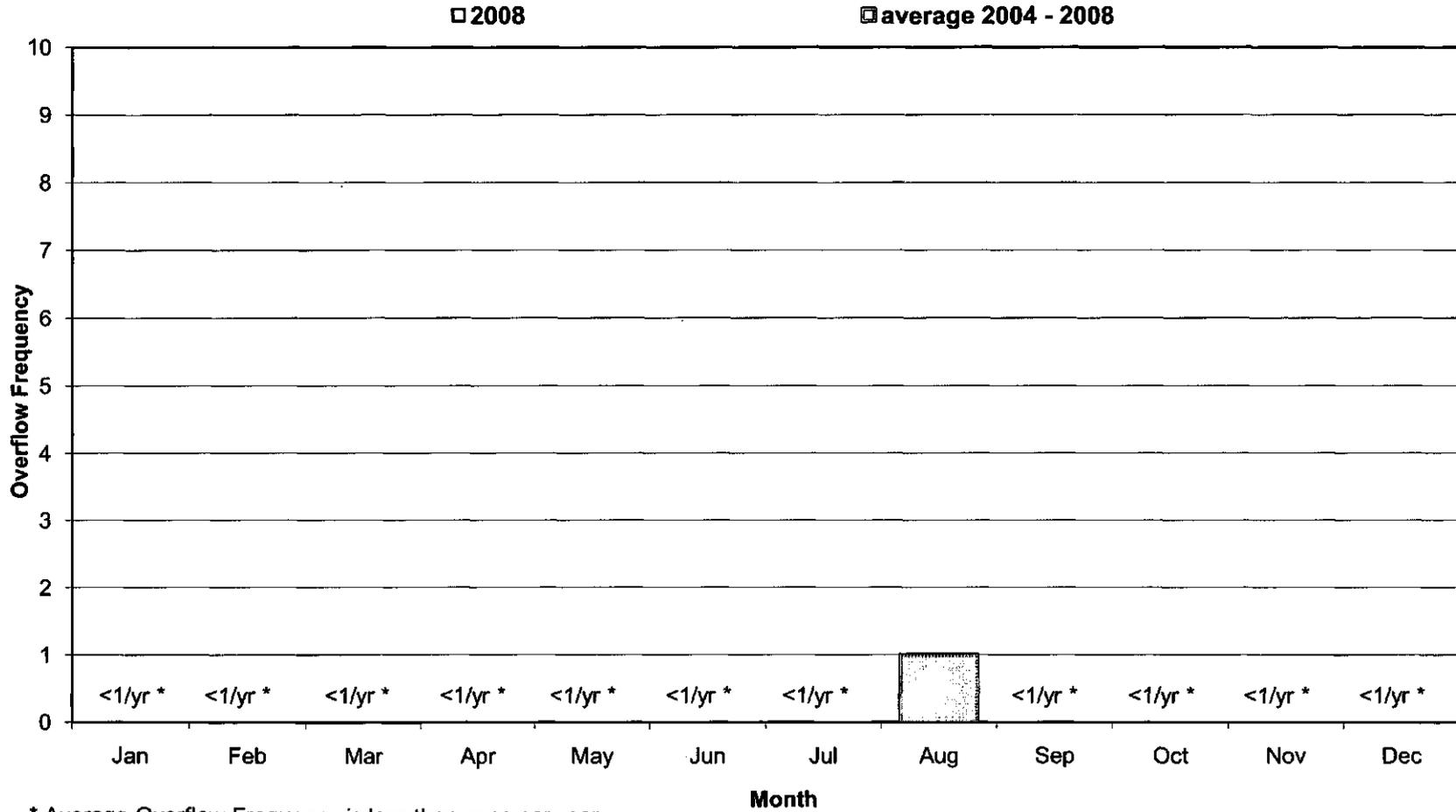
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 018 42nd Street 2004 - 2008



CSO Outfall 019 Hampton, NY - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

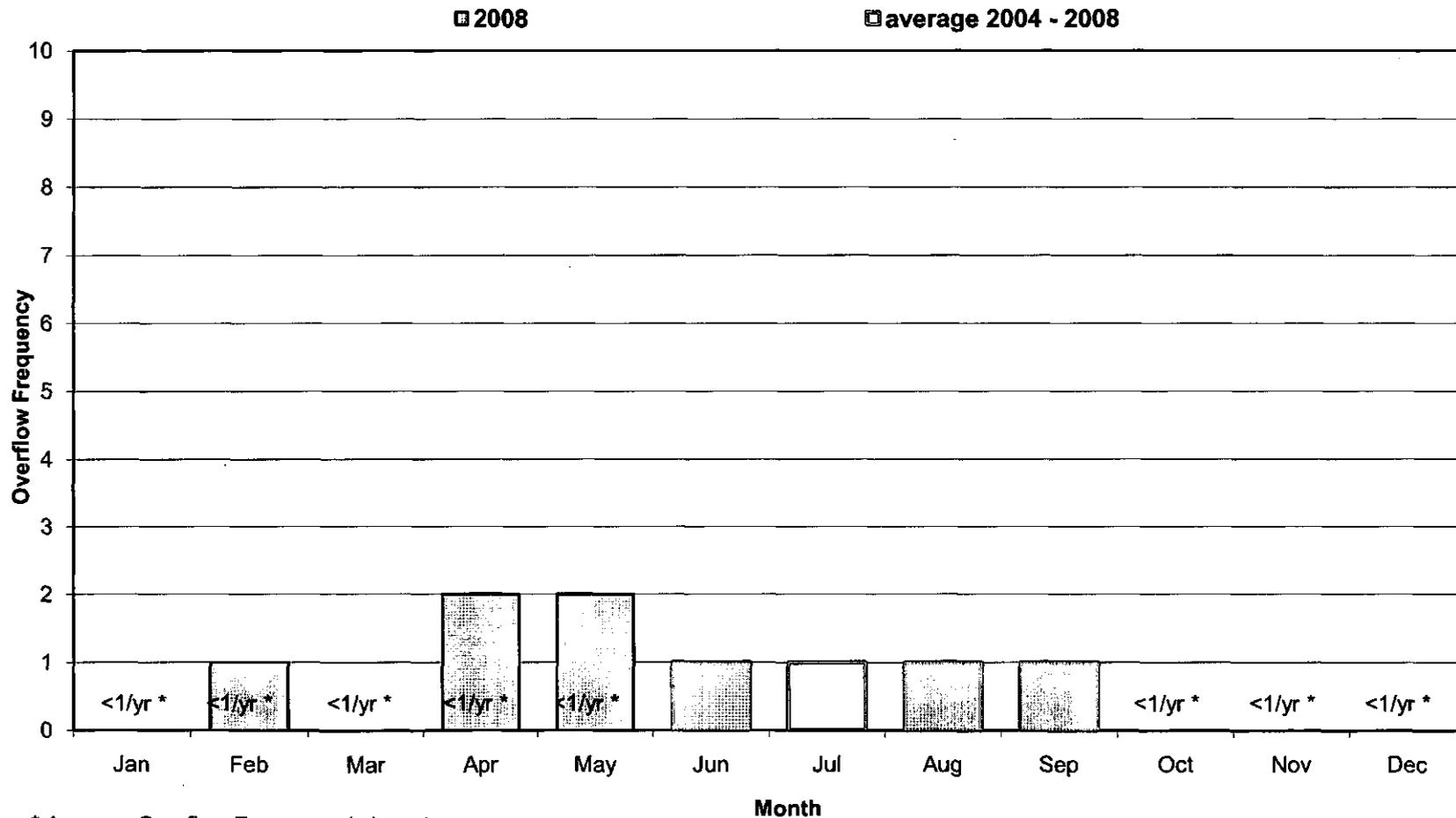
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 019 Hampton, NY 2004 - 2008



CSO Outfall 020 McCloy - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

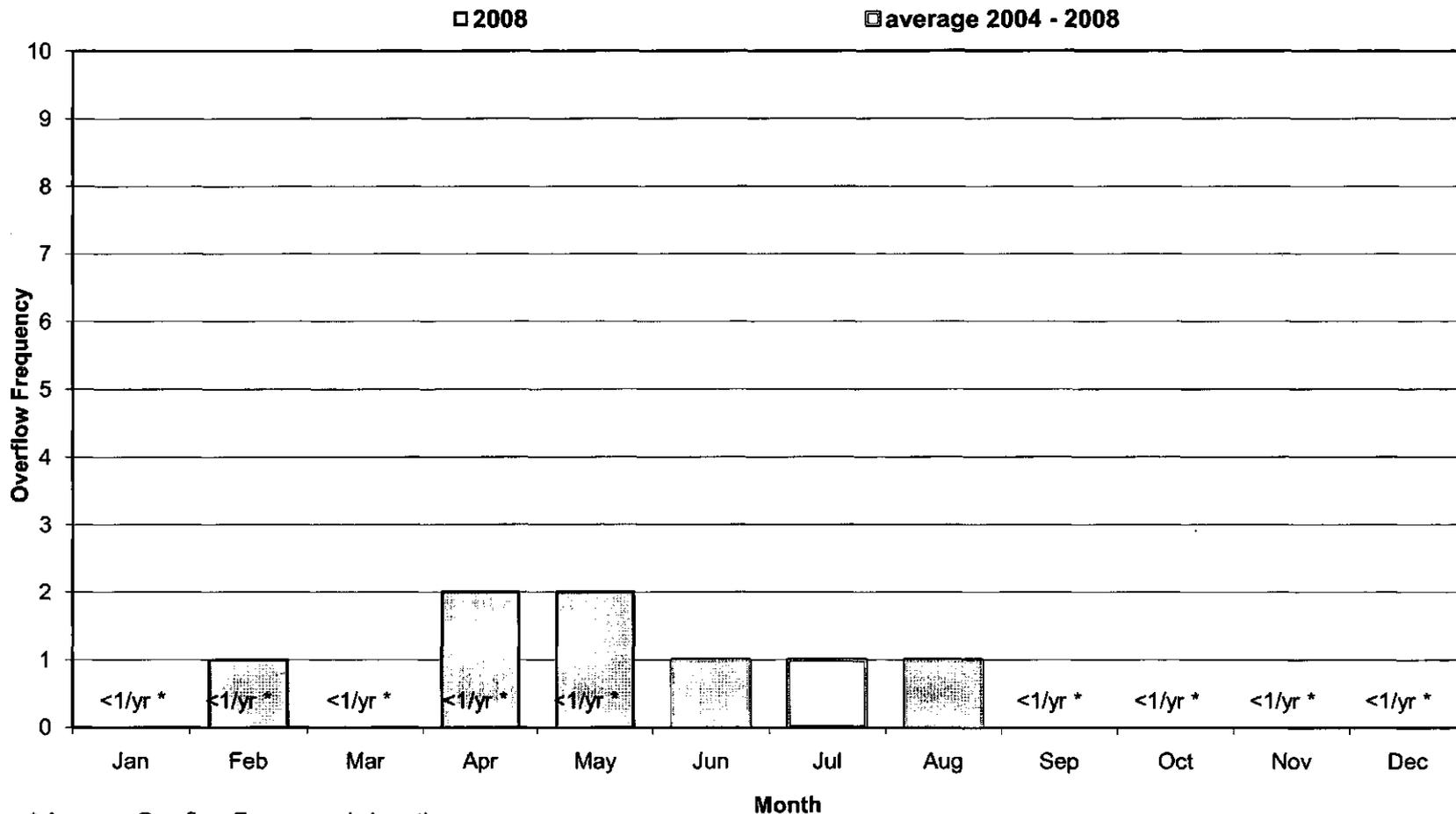
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 020 McCloy 2004 - 2008



**CSO Outfall 021 Gordon Ave. - 2008
 Rainfall and Overflow Model Summary
 Current Month: December 2008**

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08	1				0.13	2
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	1				10.43	33
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	1.24	4
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08	1	0.36	6	0.12	0.81	6
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

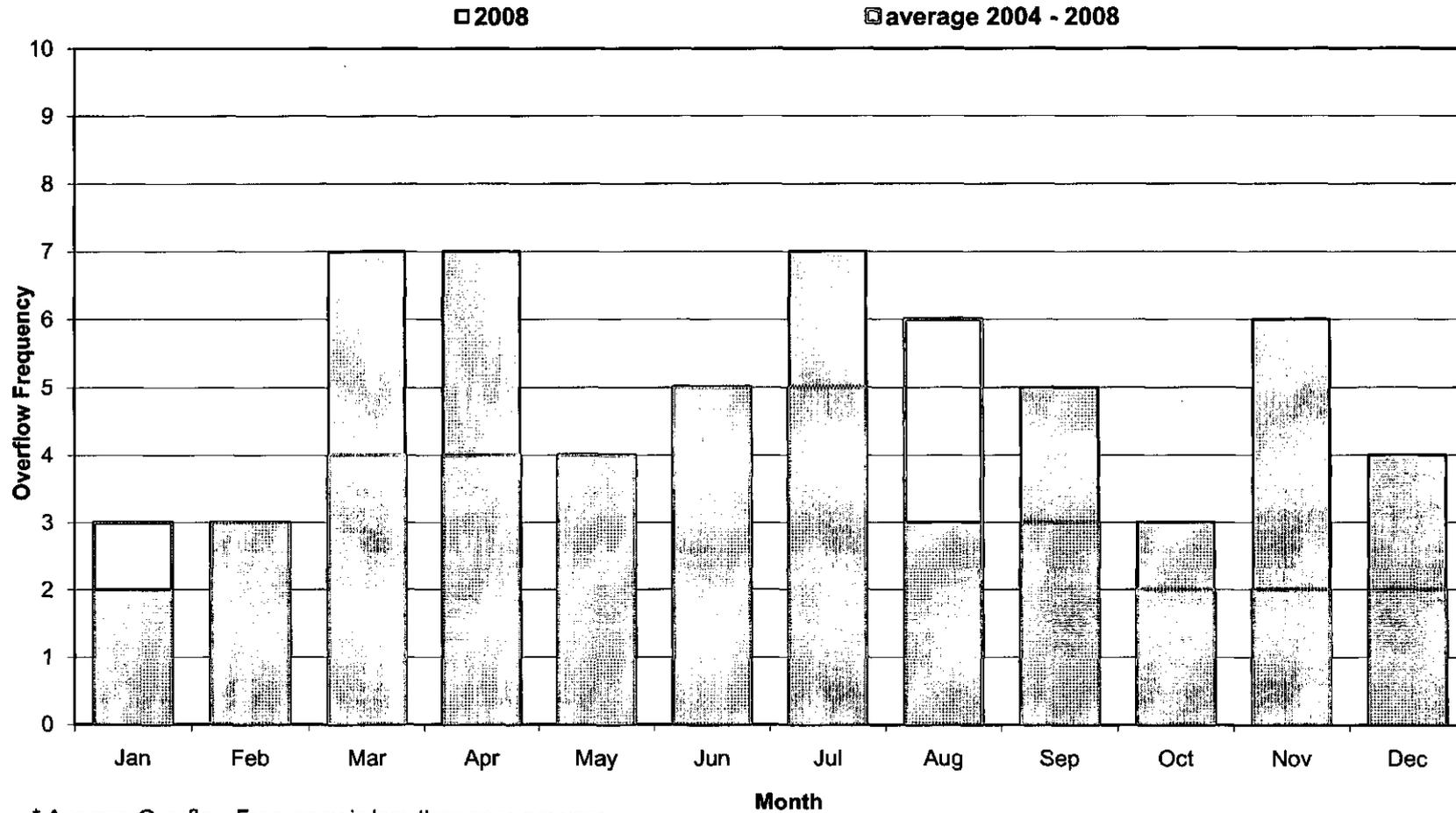
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
4	4.07	76	0.32	12.61	45

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 021 Gordon Avenue 2004 - 2008



* Average Overflow Frequency is less than once per year

**CSO Outfall 023 Old Ful St. Br. - 2008
 Rainfall and Overflow Model Summary
 Current Month: December 2008**

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

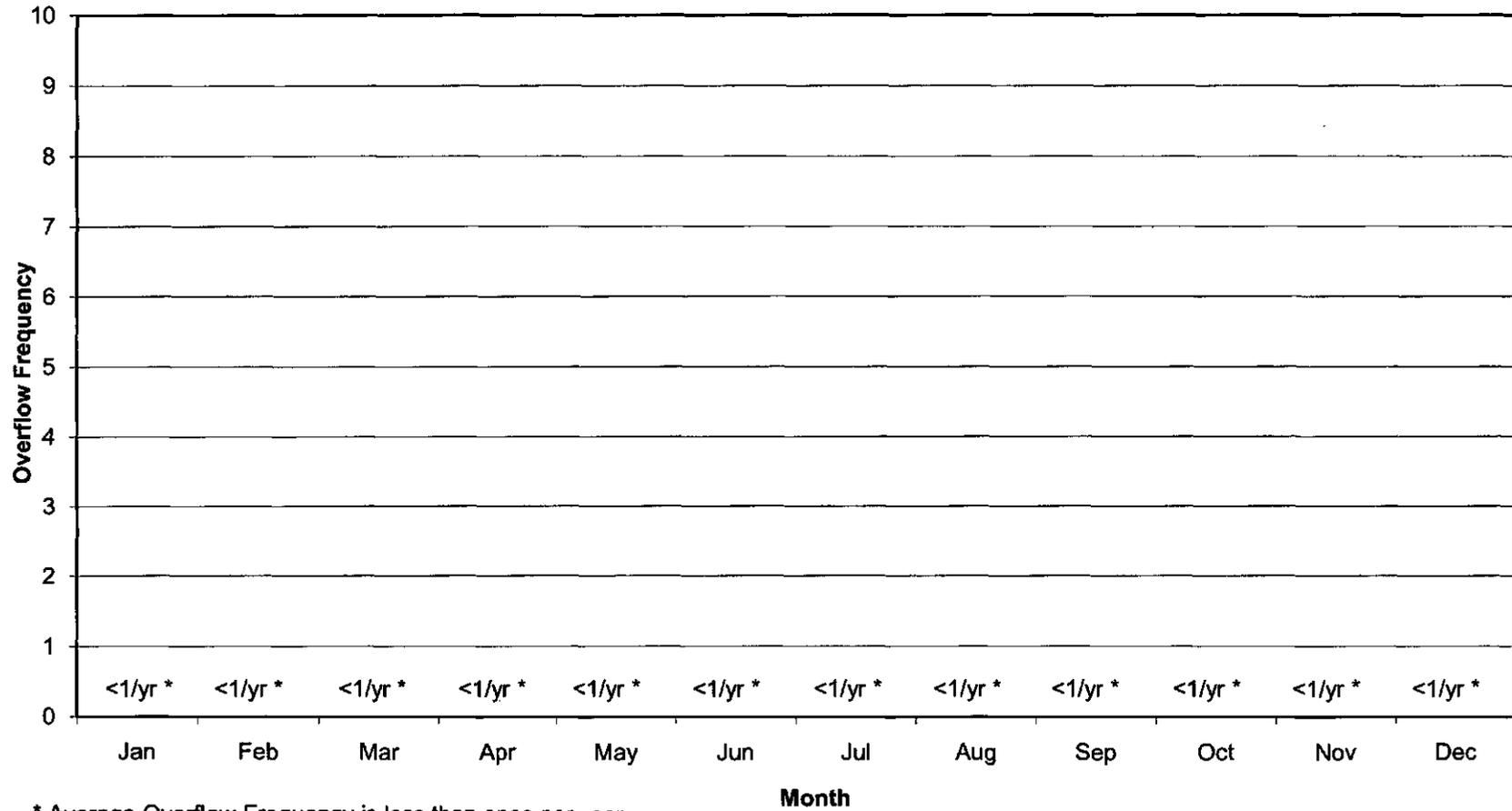
(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 023 Old Ful St. Br. 2004 - 2008

□ 2008

□ average 2004 - 2008



CSO Outfall 024 Gillies & Varina - 2008

Rainfall and Overflow Model Summary

Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	1				0.96	24
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.09	3
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08	1	0.36	6	0.12	0.02	2
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

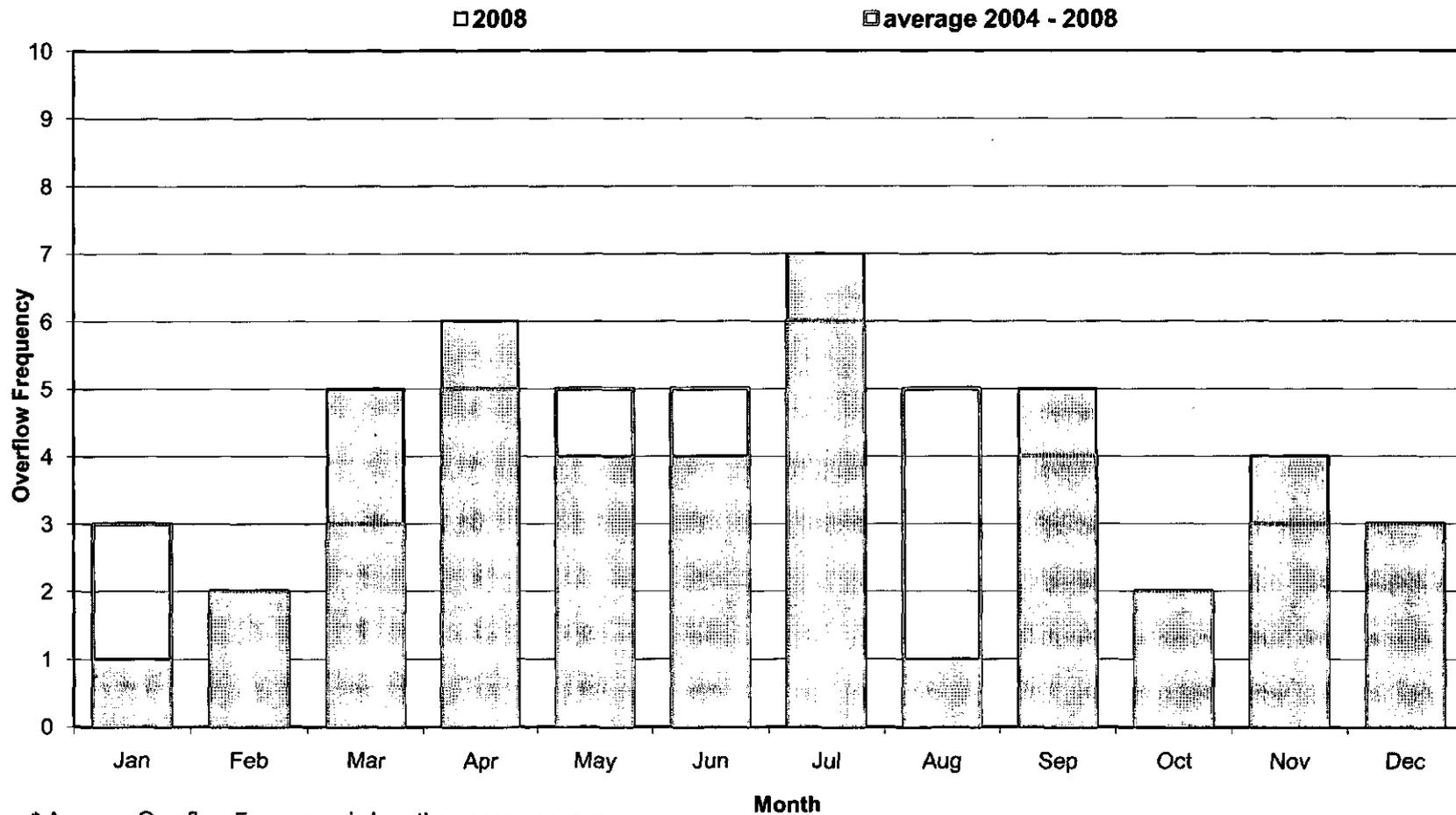
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	1.07	29

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 024 Gillies & Varina 2004 - 2008



* Average Overflow Frequency is less than once per year

CSO Outfall 025 Briel & Gillies Cr. - 2008

Rainfall and Overflow Model Summary

Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	2				0.72	17
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.03	2
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

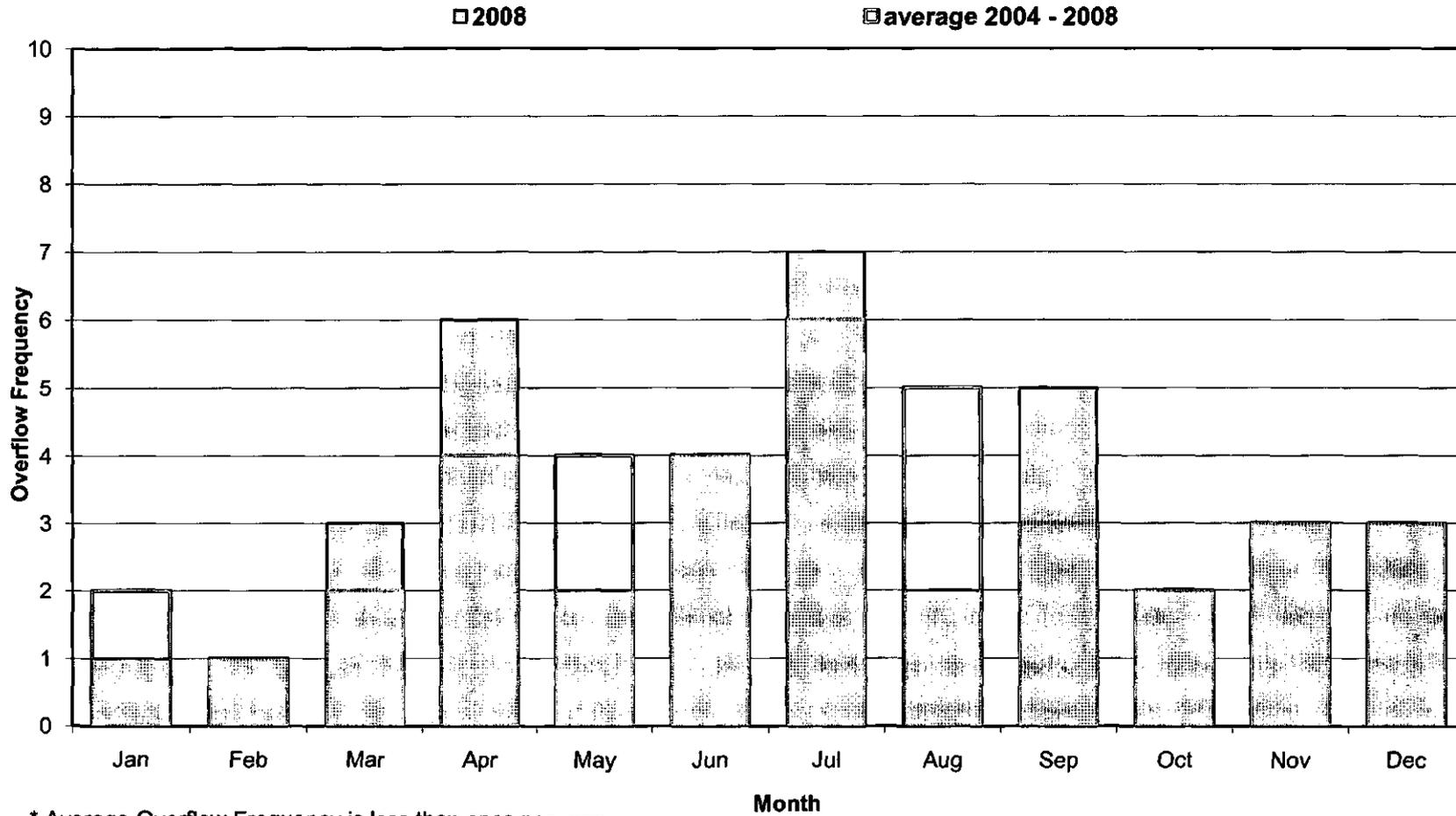
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	0.74	19

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 025 Briel & Gillies Cr. 2004 - 2008



CSO Outfall 026 Gov't Road & NSRR - 2008

Rainfall and Overflow Model Summary

Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	2				0.19	17
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.01	2
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

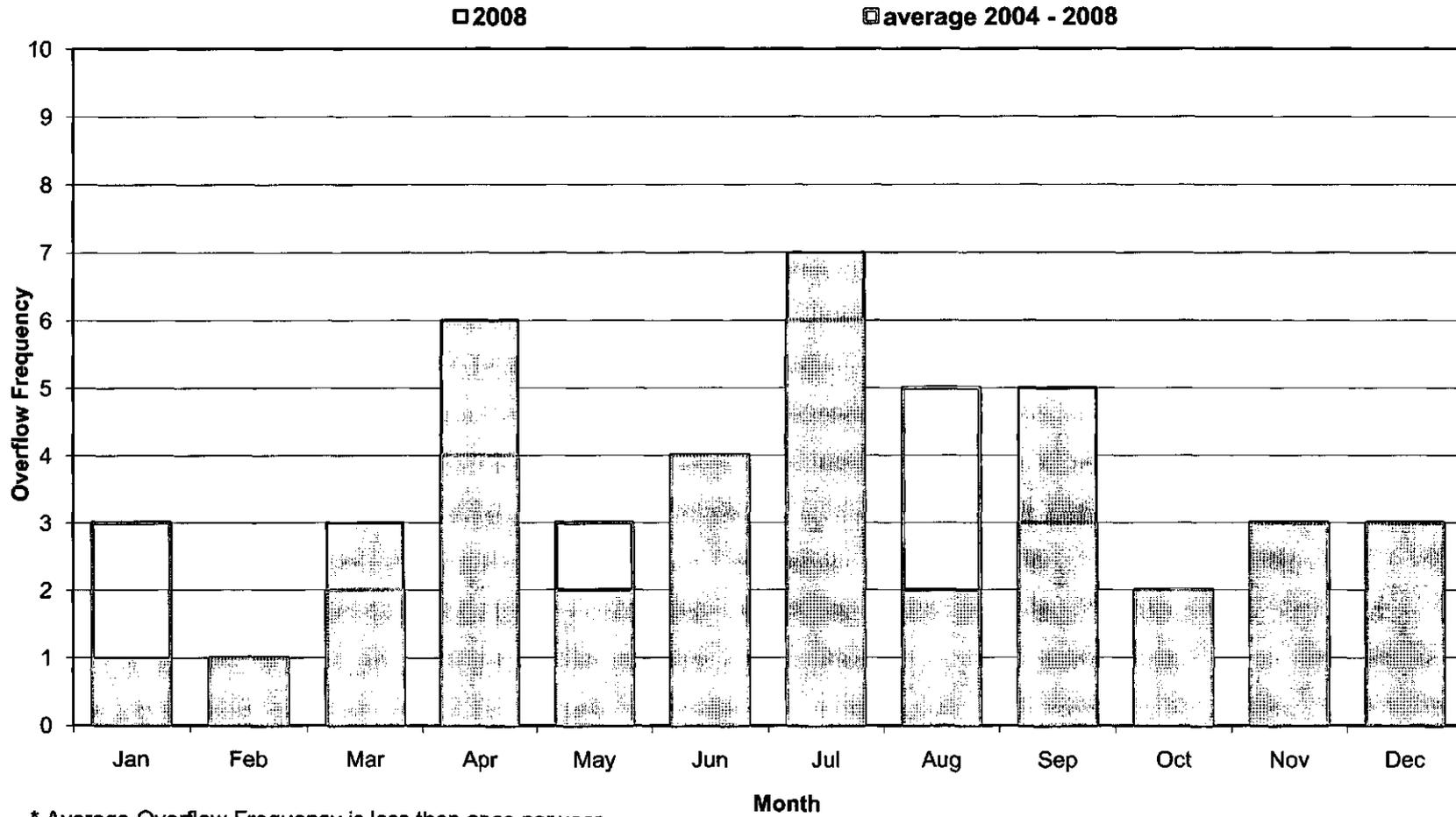
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	0.20	19

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 026 Gov't Road & NSRR 2004 - 2008



* Average Overflow Frequency is less than once per year

CSO Outfall 027 New W'Burg Rd. - 2008

Rainfall and Overflow Model Summary

Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

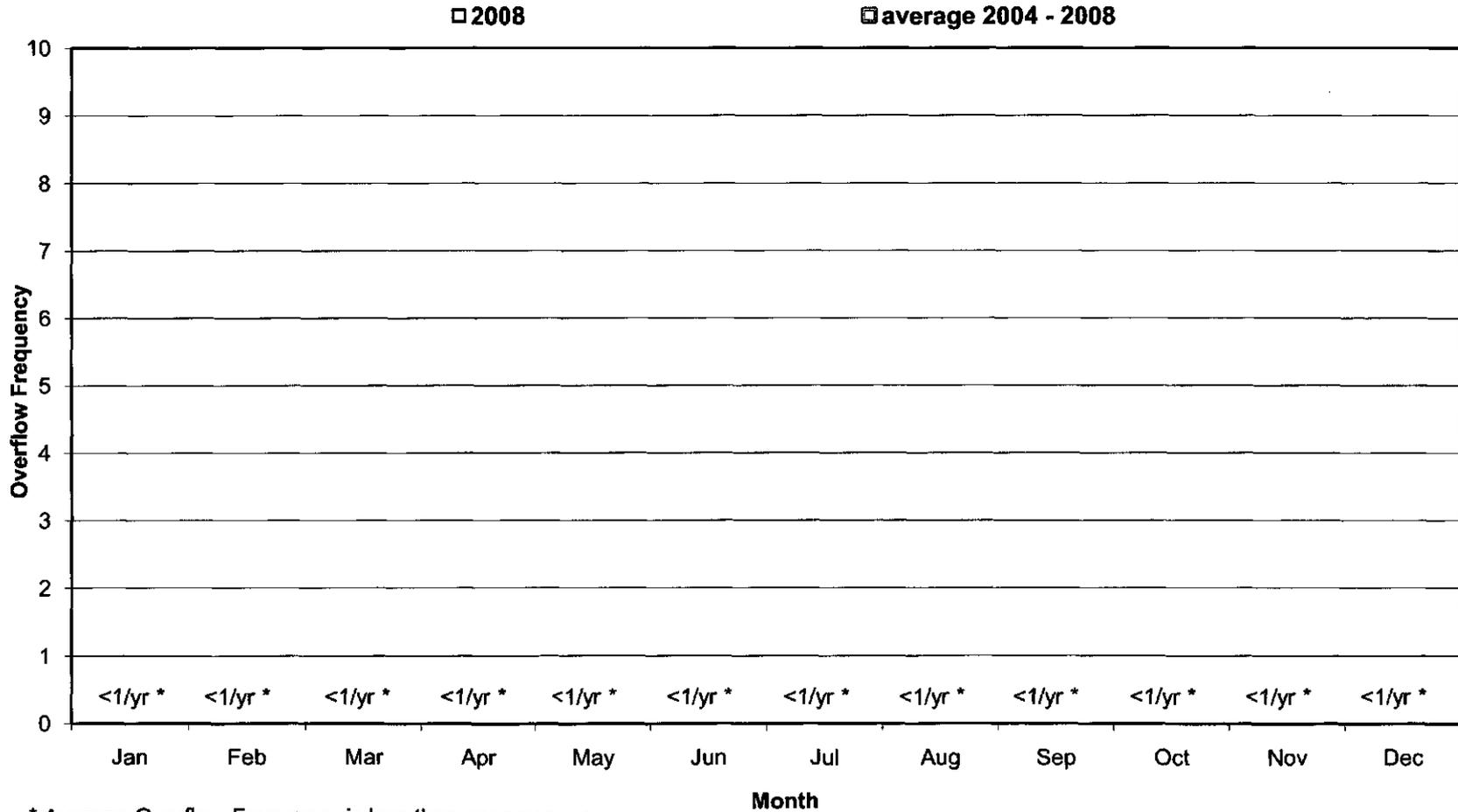
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in.) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 027 New W'Burg Rd. 2004 - 2008



CSO Outfall 028 W'Burg Rd. - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	1				0.13	5
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

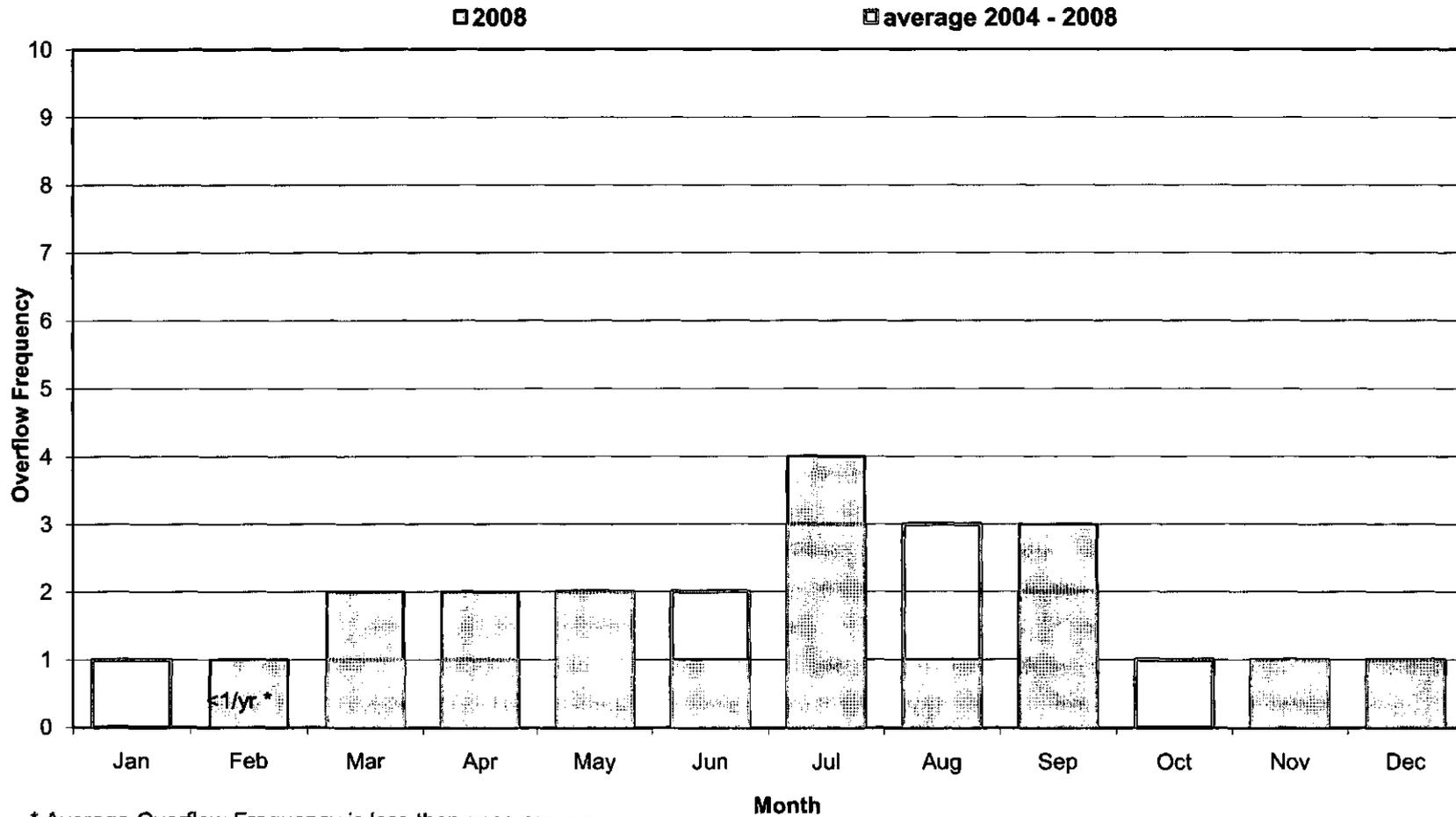
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
1	4.07	76	0.32	0.13	5

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 028 W'Burg Rd. 2004 - 2008



CSO Outfall 031 Oak'Wd Cem. - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

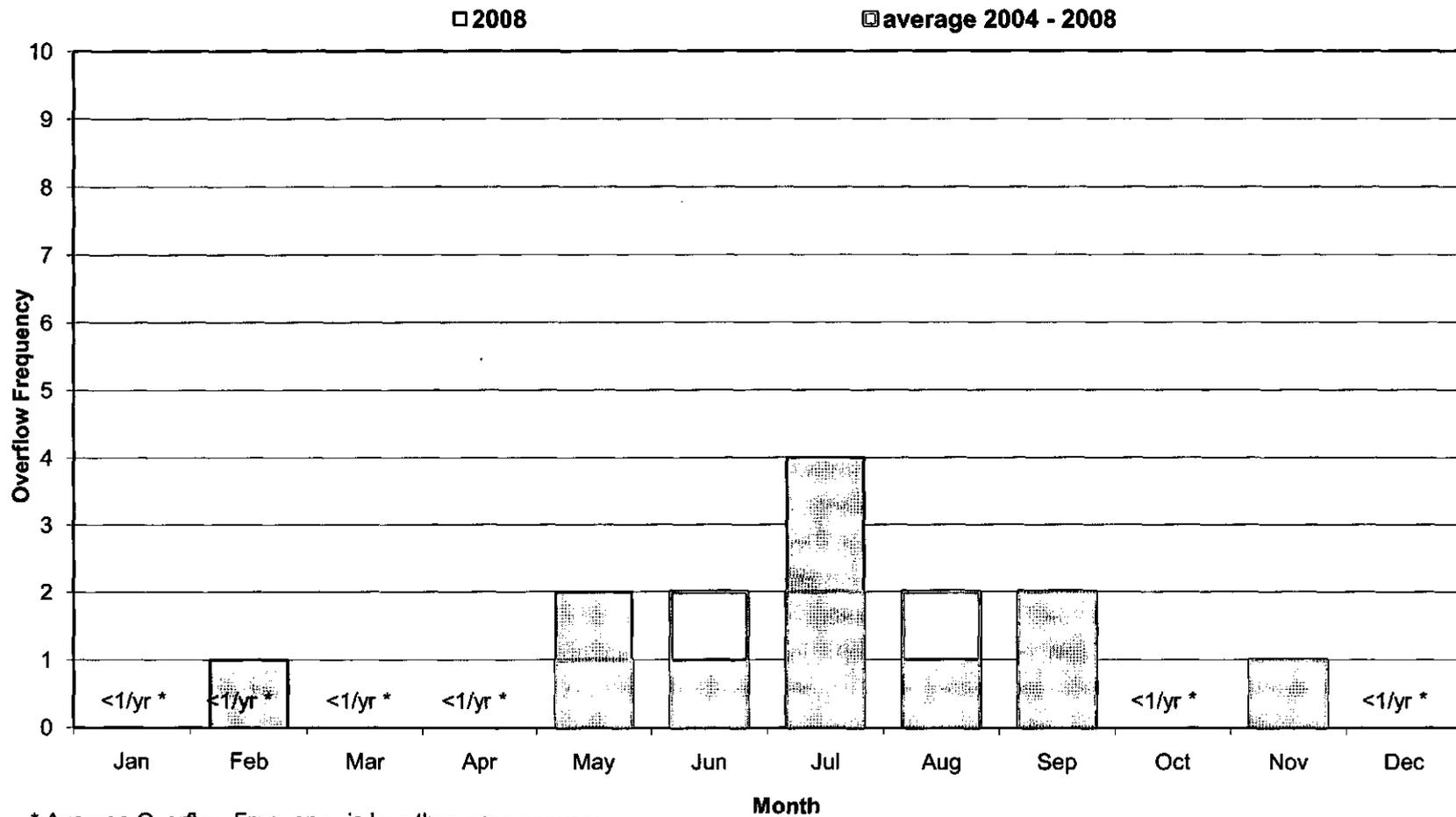
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 031 Oak'Wd Cem. 2004 - 2008



CSO Outfall 033 Shields Lake - 2007
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

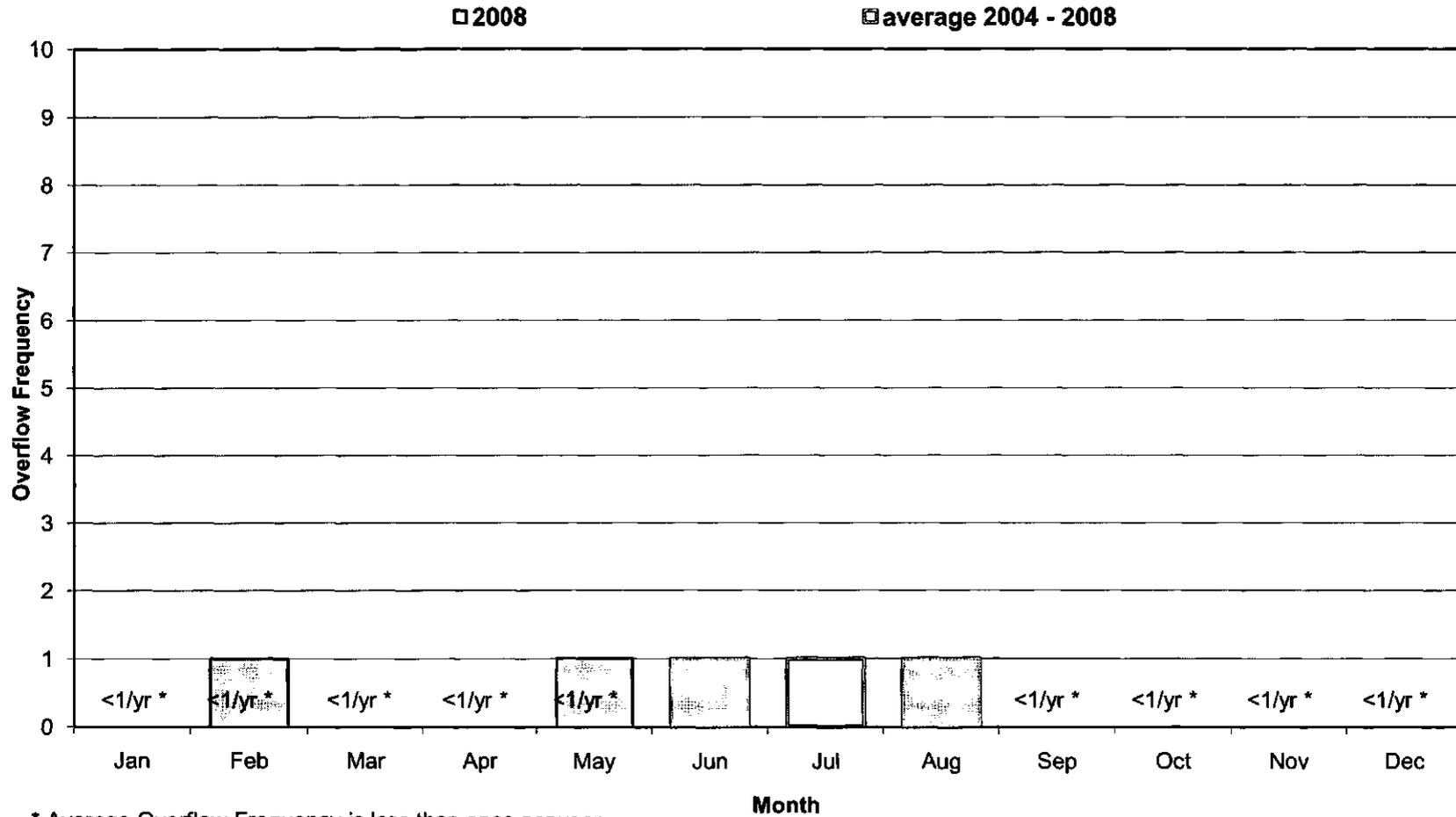
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 033 Shields Lake 2004 - 2008



CSO Outfall 034 19th & Dock - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08	1				0.01	2
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	1				3.97	32
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.42	4
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08	1	0.36	6	0.12	0.15	3
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
4	4.07	76	0.32	4.56	41

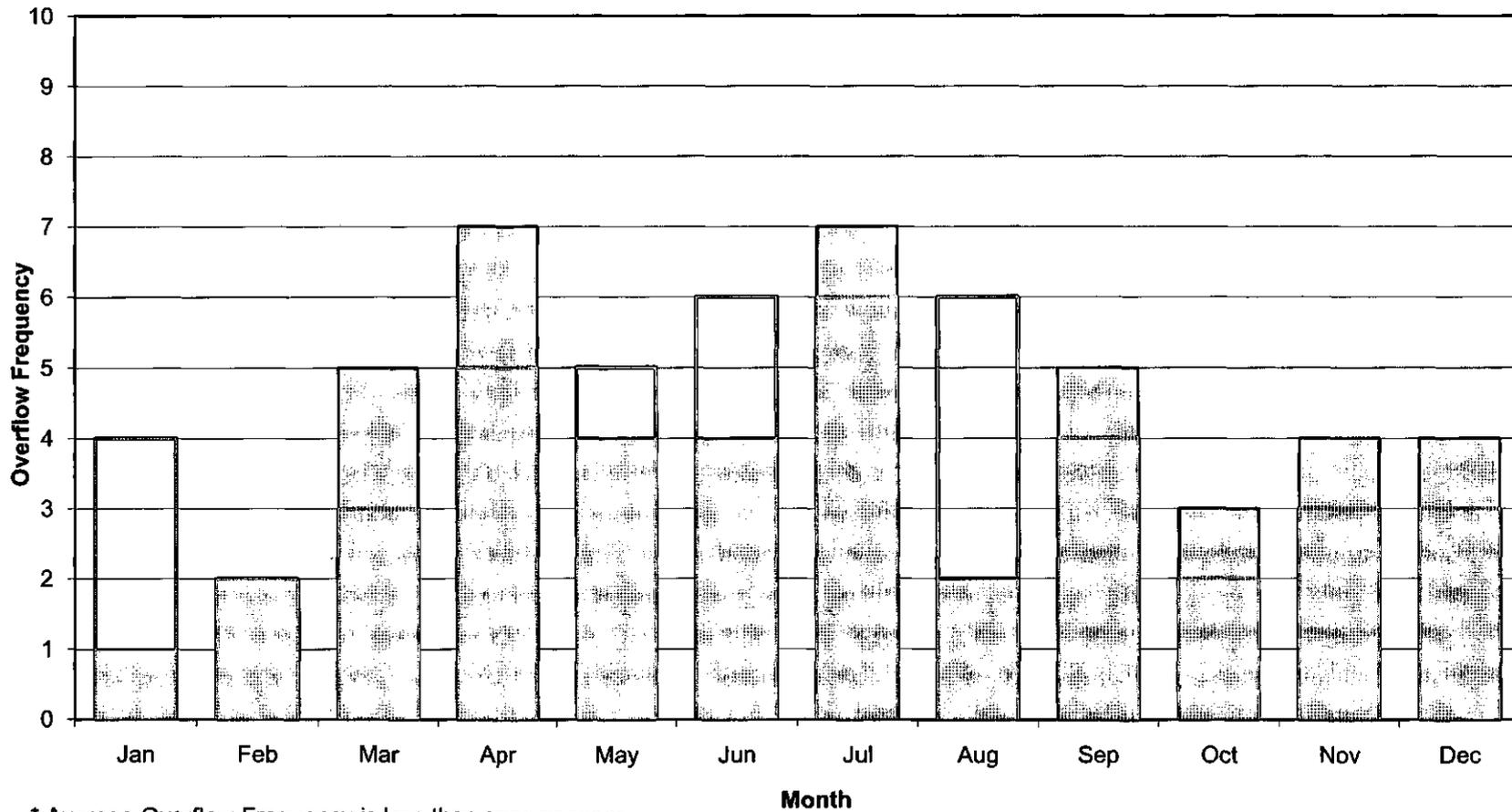
(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 034 19th & Dock 2004 - 2008

□ 2008

▣ average 2004 - 2008



* Average Overflow Frequency is less than once per year

CSO Outfall 035 29th & Dock - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08						
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08		0.59	26	0.16	none	none
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08		0.36	6	0.12	none	none
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

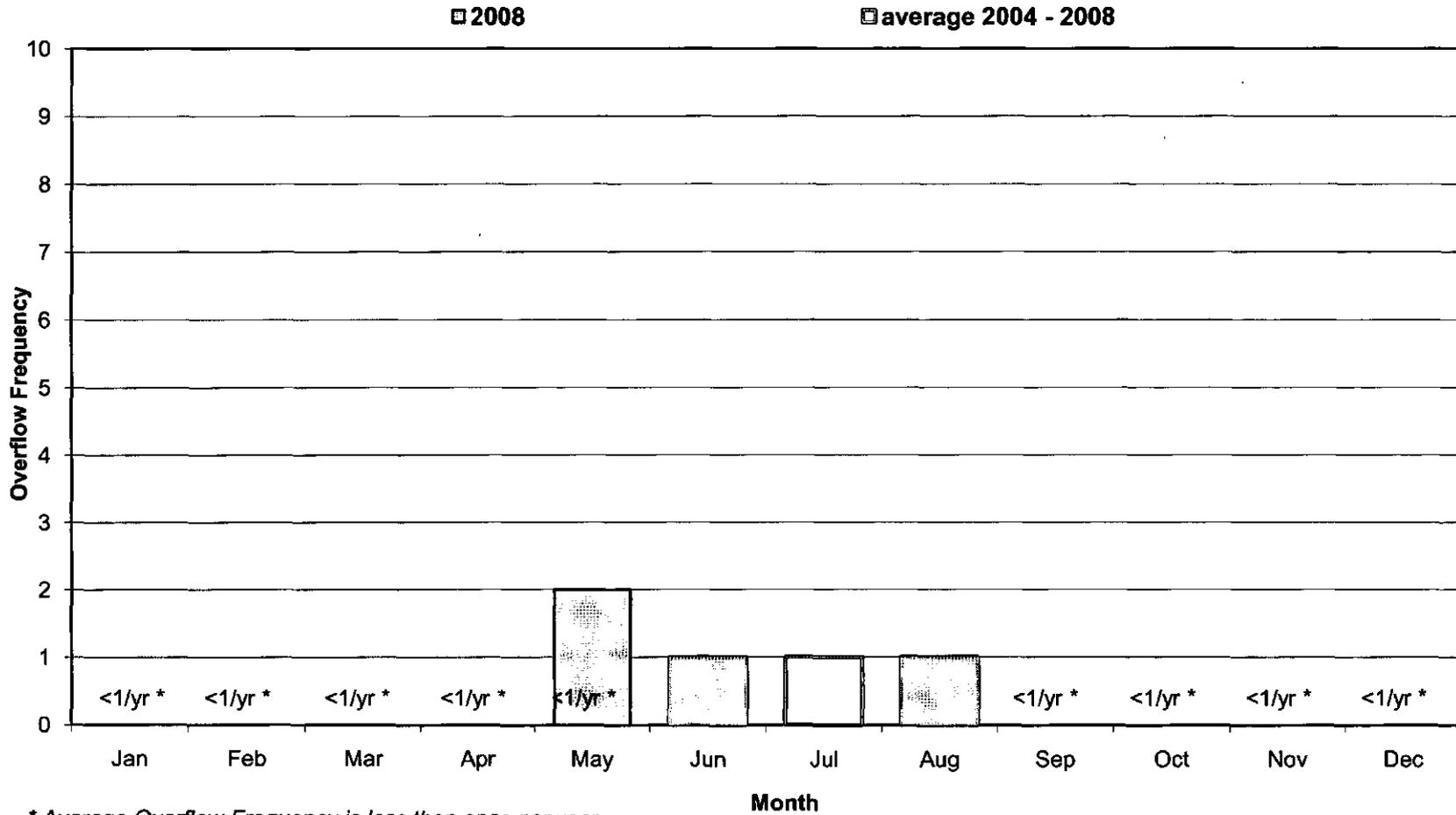
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
	4.07	76	0.32		

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 035 29th & Dock 2004 - 2008



CSO Outfall 039 Gov't Road & Gillies - 2008

Rainfall and Overflow Model Summary

Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08						
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	1				1.37	31
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	0.13	3
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08	1	0.36	6	0.12	0.03	2
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

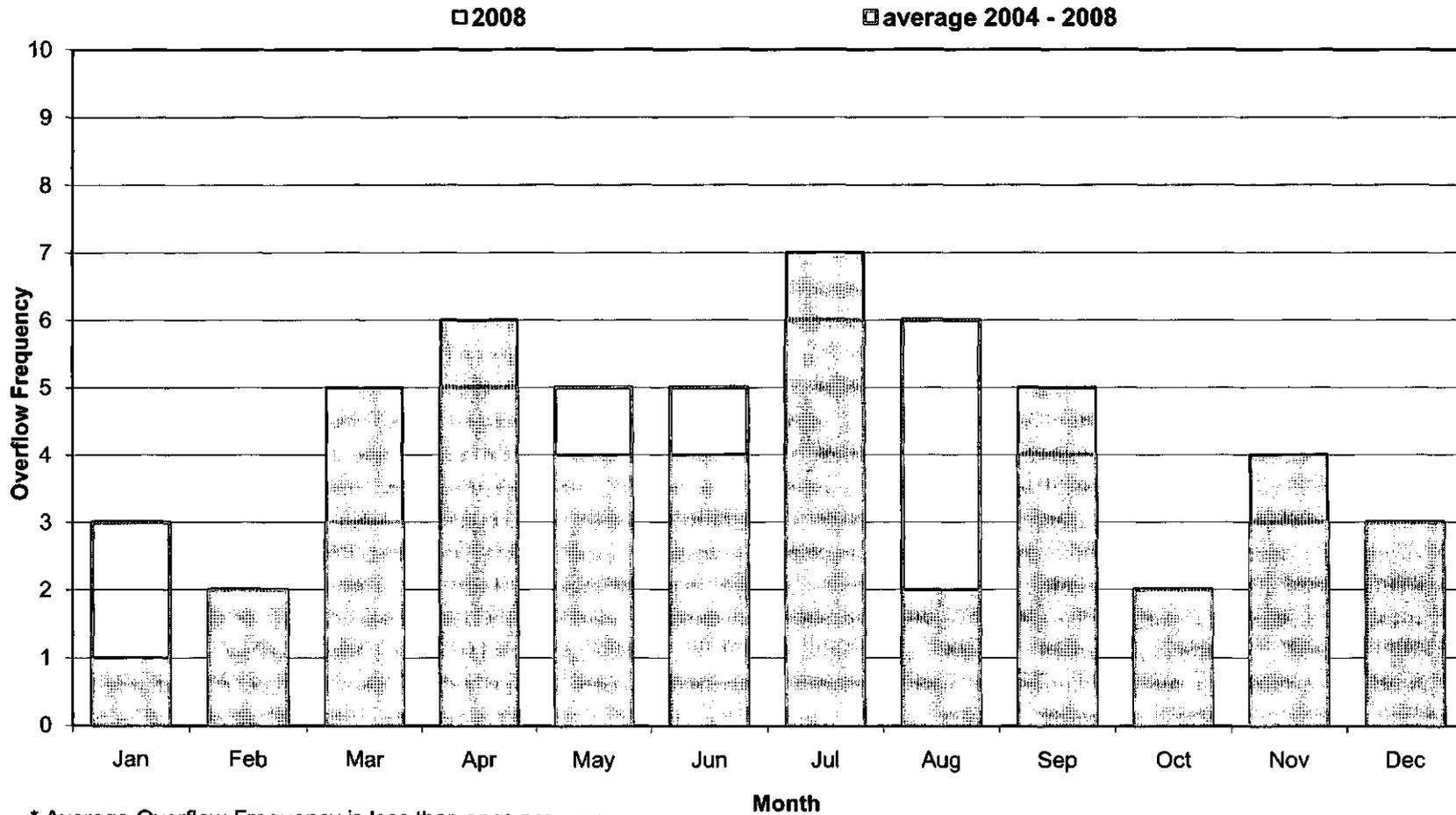
MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
3	4.07	76	0.32	1.54	36

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 039 Gov't Road & Gillies 2004 - 2008



* Average Overflow Frequency is less than once per year

CSO Outfall 040 Diffuser - 2008
Rainfall and Overflow Model Summary
Current Month: December 2008

Date	Num of Overflows	Storm ⁽¹⁾ Total (in.)	Hours of Rainfall	Maximum Storm Intensity (in./hr.)	Volume of Overflow (MG)	Duration of Overflow (hrs.)
12/1/08	1				0.07	2
12/2/08						
12/3/08						
12/4/08						
12/5/08						
12/6/08		0.03	2	0.02	none	none
12/7/08						
12/8/08						
12/9/08						
12/10/08		2.98	34	0.32	none	none
12/11/08	1				10.52	33
12/12/08						
12/13/08						
12/14/08						
12/15/08						
12/16/08	1	0.59	26	0.16	1.12	5
12/17/08						
12/18/08						
12/19/08		0.08	5	0.03	none	none
12/20/08						
12/21/08	1	0.36	6	0.12	0.54	6
12/22/08						
12/23/08						
12/24/08		0.02	2	0.01	none	none
12/25/08						
12/26/08						
12/27/08		0.01	1	0.01	none	none
12/28/08						
12/29/08						
12/30/08						
12/31/08						

MONTH SUMMARY

Num of Overflows	Total Rain	Total Hours	Max Intensity	Total Volume	Total Duration
4	4.07	76	0.32	12.26	46

(1) Storm Total (in) data from National Weather Service, Wakefield Office, Richmond International Airport.

City of Richmond, Virginia
Overflow Frequency by Month

CSO Outfall 040 Diffuser 2004 - 2008

